Mitochondrial DNA Haplotypes and Nuclear DNA Genotypes Found in North American Beluga Whales (*Delphinapterus leucas*)

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ABSTRACT

Brown Gladden, J.G., B.G.E. de March, L.D. Maiers, M.K. Friesen, W.R. Lillie, M.M. Ferguson, and J.W. Clayton. 2000. Mitochondrial DNA haplotypes and nuclear DNA genotypes found in North American beluga whales (*Delphinapterus leucas*). Can. Data Rep. Fish. Aquat. Sci. 1065: iv + 24 p.

Molecular DNA data are presented from two molecular genetic techniques used to examine mitochondrial and nuclear DNA variation in North American beluga whales (*Delphinapterus leucas*). Mitochondrial DNA variation was examined in 643 beluga whale samples from 29 sample sites. The mitochondrial DNA sequence was obtained for 234 base pairs in the control region and 42 mtDNA haplotypes were identified. Nuclear DNA variation was surveyed by examining alleles of five microsatellite loci in 654 beluga whales from the same 29 sample sites.

Key words: *Delphinapterus leucas*; beluga whale; molecular genetics; mitochondrial DNA; nuclear DNA.

RÉSUMÉ

Brown Gladden, J.G., B.G.E. de March, L.D. Maiers, M.K. Friesen, W.R. Lillie, M.M. Ferguson, and J.W. Clayton. 2000. Mitochondrial DNA haplotypes and nuclear DNA genotypes found in North American beluga whales (*Delphinapterus leucas*). Can. Data Rep. Fish. Aquat. Sci. 1065: iv + 24 p.

Les auteurs présentent des données sur l'ADN moléculaire qu'ils ont obtenues à partir de deux techniques de génétique moléculaire utilisées pour étudier la variation de l'ADN mitochondrial et de l'ADN nucléaire chez les bélugas (*Delphinapterus leucas*) d'Amérique du Nord. Ils ont analysé la variation de l'ADN mitochondrial dans 643 échantillons prélevés chez des bélugas à 29 sites d'échantillonnage. Ils ont établi la séquence de 234 paires de bases de l'ADN mitochondrial dans la région témoin et identifié 42 haplotypes d'ADN mitochondrial. Pour ce qui est de la variation de l'ADN nucléaire, ils ont examiné les allèles de cinq locus microsatellites chez 654 bélugas provenant des mêmes sites d'échantillonnage.

Mots-clés: *Delphinapterus leucas;* béluga; génétique moléculaire; ADN mitochondrial; ADN nucléaire.

INTRODUCTION

This report presents data from two molecular genetic techniques used to examine mitochondrial and nuclear DNA variation in North American beluga whales (*Delphinapterus leucas*). Belugas from collection sites representing eight of the 11 provisional management stocks across North America were examined (Smith et al. 1990; Adams et al. 1993). Subsets of the data given in this data report have been used in the following papers: Postma 1995; Brown 1996; Lillie et al. 1996; Maiers et al. 1996; and Brown Gladden et al. 1997, 1999a and b.

MATERIALS AND METHODS

Samples from 695 North American belugas were obtained from 1984 to 1994 from aboriginal subsistence hunts and other sources and collectors (Acknowledgements, Table 1). Total DNA extracts were prepared using methods by Amos and Hoelzel (1991) and Sambrook (1989) according to Maiers (1996).

Mitochondrial DNA (mtDNA) was examined in 643 beluga whale samples from 29 sites for DNA amplification. DNA Amplification (Brown 1996) using the polymerase chain reaction (PCR: Saiki et al. 1985) was performed twice to obtain single stranded mtDNA for sequencing (Lillie 1995). The majority of the amplified DNA products were manually sequenced (Lillie1995; Brown 1996) and a small number of samples were amplified once and sent to the Plant Biotechnology Institute, Saskatoon, Saskatchewan and analysed on an Applied Biosystems DNA sequencer.

Nuclear DNA (nDNA) variation was examined in 654 beluga whale samples from the same 29 sites using five pairs of microsatellite primers at five loci. Microsatellite loci *DlrFCB4* and *DlrFCB5* were developed specifically for beluga whales (Buchanan et al. 1996), *Gme464/465* was identified in the long-finned pilot whale *Globicephala melaena* (Schlötterer et al. 1991), *EV37Mn* and *EV94Mn* were identified in the humpback whale *Megaptera novaeangliae* (Valsecchi and Amos 1996). Microsatellites were amplified and visualized according to specified conditions (Buchanan and Crawford 1993; Buchanan 1994; Buchanan et al. 1996). Nuclear DNA genotypes were assigned on the basis of the size of the microsatellite alleles (Brown 1996).

Since the publications (Brown Gladden et al. 1997, 1999a) a few samples have been reanalysed. Also, since that time, sex was determined for most samples by methods described by Bérubé and Palsbøll (1996). From these analyses of sex, it was concluded that approximately 10% of field designations from some communities were incorrect. For these reasons, a small percentage of values in this report are not identical to those used in the previous publications.

RESULTS

Mitochondrial DNA haplotypes determined from 234 bases in the control region (Fig. 1) revealed 19 variable positions resulting in 39 mtDNA haplotypes identified in beluga whales (Brown 1996, 1997). Since the published reports, three more haplotypes with the same variable positions have been found in this data set. Haplotype 40 (H40) is one nucleotide different from each of H19 and H31; H41 is one nucleotide different from each of H07 and H13; and H42 is one nucleotide different from H07 (see network with 39 haplotypes in Brown Gladden 1997). Microsatellite analyses showed that locus DlrFCB4 had 13 alleles; DlrFCB5, 7 alleles; 464/465, 6 alleles; EV37Mn, 13 alleles; and EV94Mn had 9 alleles.

All beluga whale samples, as well as sex, collection date, collectors (when available), the publications of J. Brown Gladden in which the sample was used, and mtDNA haplotypes and nDNA genotypes are listed in Table 1.

Table 1 is available as an Excel File from B.G.E. de March.

ACKNOWLEDGMENTS

This study was funded in part by the Department of Fisheries and Oceans, the Fisheries Joint Management Committee (Inuvik), Tungavik Federation of Nunavut, World Wildlife Fund, and the Panel on Energy Research and Development. St. Lawrence River beluga DNA were provided by Dr. B.N. White (McMaster University) from stranded animals sampled by P. Béland of the Institute National d'Ecotoxicologie du Saint-Laurent. We thank Dr. E. Valsecchi and Dr. F.C. Buchanan for providing microsatellite primers. Additional collectors whom we thank are listed in Table 1. We also thank D. Lint, R. Mangel, O. Nielsen, D. Risbey, D. Tenkula, A. Wiens, R. Bajno, and F. Yadeo for laboratory assistance, R. McPherson for the final data tabulation, and Drs. R.W. Stuart and S. Innes for reviewing earlier drafts of this report.

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Figure 1. Partial control region of the beluga whale mtDNA sequence starting from the 5' end adjacent to the proline tRNA gene. The sequence, mtDNA haplotype 01, begins at the boxed-in nucleotide after the Bel 5' primer and ends at the other boxed-in nucleotide. Asterisks mark the 19 variable positions in 42 beluga haplotypes. Polymorphic nucleotide position 1 of the beluga whale sequence corresponds to position 16009 in the fin whale *(Balaenoptera physalus)* mtDNA (Arnason et al. 1991). The numbers in the right hand column indicate the number of bases in the examined sequence.

```
                                    →-------- Bel 5' Primer ---------←
TTAAATAAAC  CTATTTCCAA  TACATTTTAC  TGTGACTATT  GCATACCCTT  ATACACACAC

                    *               *     * *   **
CATTAAATCT  TAGTCTTTCT  TTATAAATAT  TCATATACAT  ATATACTATG  TATTATTGTG      46
                Position 1
                        **                                  *  *
CATTCATTTA  TTTTCCATAC  GATCAGTTAA  AGCTCGTATT  AGATCTTATT  AATTTTACAA     106

  *                                     *         *       **
ATCACATAAT  ATGCATGCTC  TTACATATTA  TATATCAACA  GTCCATTTTA  CCTCCATTAT     166

                                      ** *
ATACTATGGC  CGCTCCATTA  GATCACGAGC  TTAACTACCA  TGCCGCGTGA  AACCAGCAAC     226

     *
CCGCTCGG                                                               234
       Position 234
```

Table 1. Page 1 of 20 pages in Table.
Beluga samples examined for mtDNA and nDNA variation.

Two sample identification codes are given: 1) the field ID code, and 2) the laboratory ID code used by J. Brown Gladden. Animal sex and collection date (year, month, day) are indicated when known. Mitochondrial DNA haplotypes and microsatellite genotypes (size of alleles) for the five-microsatellite loci are given. "-" indicates that data are not available. The +'s in the "Publications" columns indicate in which publications of J. Brown Gladden the data were used. "Contact" refers to the person with most information about the field collection and "Source" refers to how and/or when the sample was collected. "Contacts" are: BD - Bill Doidge, Nunavik Research Centre ; GC -Geoff Carroll, Alaska Department of Fish and Game; LH - Lois Harwood; and MS - Matt Stabler, both of Fisheries Joint Management Committee; RS - Rob Stewart, JO - Jack Orr, PH - Patt Hall, all from DFO Winnipeg; LD - Lothar Dahlke, DFO Iqaluit; TS - Tom Smith, Ecomarine Corporation; PB - Paul Brodie; BW - McMaster University; MPHJ - Greenland Institute of Natural Resources; FWI -Freshwater Institute beluga database. "Sources" are: ENT – entrapment; TA – tagged live animal; BI – biopsied live animal; LC – live capture for aquarium; HK – hunter killed; and FD – found dead.

					Collection Date					Microsatellite Readings										JBG Publications		
Location	Field ID	JGB ID	Contact	Source	Year	Month	Day	Sex	Haplotype	DlrFCB4A	DlrFCB4B	DlrFCB5A	DlrFCB5B	Gme464/465A	Gme464/465B	EV37MnA	EV37MnB	EV94MnA	EV94MnB	1997	1999a	Thesis
Norton Sound, Alaska, USA (n=14)																						
Stebbins	STBD-3-93	AL93-STBD-3	MS	HK	1993	8	25	M	02	163	171	126	128	130	134	205	211	210	216	-	+	+
St. Michael	STMD-4-93	AL93-STMD4	MS	HK	1993	9	11	M	35	159	161	124	128	134	134	201	205	210	214	+	+	+
Norton Bay	SHKD-2-93	AL93-SHKD-2	MS	HK	1993	9	11	F	35	159	171	124	126	134	136	203	205	208	214	-	+	+
Norton Bay	SHKD-4-93	AL93-SHKD-4	MS	HK	1993	9	11	F	02	163	171	124	124	134	136	203	207	208	208	-	+	+
Norton Bay	SHKD-5-93	AL93-SHKD-5	MS	HK	1993	9	12	M	02	163	163	124	128	134	134	201	207	210	214	-	+	+
Stebbins	STBD-5-93	AL93-STBD-5	MS	HK	1993	9	13	F	02	163	171	124	128	134	134	203	203	208	210	-	+	+
St. Michael	STMD-5-93	AL93-STMD5	MS	HK	1993	9	15	F	02	171	171	124	126	134	134	195	203	210	216	+	+	+
St. Michael	STMD-6-93	AL93-STMD6	MS	HK	1993	9	15	F	02	159	163	124	128	134	134	203	207	210	218	+	+	+
St. Michael	STMD-7-93	AL93-STMD7	MS	HK	1993	9	15	M	35	171	171	124	128	130	134	195	205	214	216	+	+	+
St. Michael	STMD-8-93	AL93-STMD8	MS	HK	1993	9	15	M	02	163	173	124	128	134	134	193	211	210	210	+	+	+
Koyuk	KOYD-14-93	AL93-KOYD-14	MS	HK	1993	9	17	F	02	159	171	108	124	134	136	201	205	208	210	+	+	+
Koyuk	KOYD-15-93	AL93-KOYD-15	MS	HK	1993	9	18	M	02	171	171	124	124	134	134	199	199	208	208	+	+	+
St. Michael	STMD-1-93	AL93-STMD1	MS	HK	1993	9	21	F	12	159	163	124	128	134	134	203	207	210	218	+	+	+
St. Michael	STMD-2-93	AL93-STMD2	MS	HK	1993	9	21	F	12	159	163	124	128	134	134	201	207	210	214	+	+	+
																				9	14	14
Bristol Bay, Alaska (n=3)																						
Halfmoon Bay	BBD-1-93	AL93-BBD1	MS	HK	1993	7	15	M	02	-	-	-	-	-	-	199	203	-	-	-	-	-
Kvichak Bay	BBD-3-93	AL93-BBD3	MS	HK	1993	8	5	M	02	-	-	-	-	134	134	195	203	-	-	-	-	-
Etolin Point	BBD-4-93	AL93-BBD4	MS	HK	1993	8	5	M	02	-	-	-	-	134	138	195	207	-	-	-	-	-
																				0	0	0
Point Lay, Alaska (n=51)																						
	LD-O1-88	DLE0095R-1	GC, LH	HK	1988	6	27	M	03	159	163	124	126	134	134	205	207	210	214	+	+	+
	LD-O2-88	DLE0096-2	GC, LH	HK	1988	6	27	M	06	169	163	128	126	136	134	207	207	210	206	+	+	+
	LD-O3-88	DLE0097-3	GC, LH	HK	1988	6	27	M	02	163	163	124	124	134	134	207	203	214	214	+	+	+
	LD-O9-88	DLE0103-9	GC, LH	HK	1988	6	27	M	07	171	173	124	124	134	134	203	203	206	214	+	+	+
	LD-10-88	DLE0104-10	GC, LH	HK	1988	6	27	M	06	159	159	126	128	134	134	205	213	214	218	+	+	+
	LD-11-88	DLE0105-11	GC, LH	HK	1988	6	27	M	-	169	163	128	124	134	134	203	205	210	208	+	+	+
	LD-13-88	DLE0107-13	GC, LH	HK	1988	6	27	F	03	163	163	124	108	134	134	205	205	216	214	+	+	+
	LD-14-88	DLE0108-14	GC, LH	HK	1988	6	27	F	03	173	179	124	128	134	134	201	207	206	210	+	+	+
	LD-15-88	DLE0109-15	GC, LH	HK	1988	6	27	F	01	159	163	124	128	134	134	203	207	216	216	+	+	+
	LD-18-88	DLE0110 16	GC, LH	HK	1988	6	27	M	03	163	173	128	128	134	134	201	207	206	206	+	+	+
	LD-16-88	DLE0111-19	GC, LH	HK	1988	6	27	M	06	163	171	124	128	132	134	203	207	208	208	+	+	+
	LD-20-88	DLE0112-21	GC, LH	HK	1988	6	27	F	03	163	171	124	128	134	136	205	211	210	214	+	+	+

Table 1. Page 2 of 20 pages in Table.
Beluga samples examined for mtDNA and nDNA variation.

Location	Field ID	JGB ID	Contact	Source	Collection Date			Sex	Haplotype	Microsatellite Readings										JBG Publications		
					Year	Month	Day			DlrFCB4A	DlrFCB4B	DlrFCB5A	DlrFCB5B	Gme464/465A	Gme464/465B	EV37MnA	EV37MnB	EV94MnA	EV94MnB	1997	1999a	Thesis
	LD-22-88	DLE0113-23	GC, LH	HK	1988	6	27	M	06	159	179	126	128	134	134	195	211	214	216	+	+	+
	LD-24-88	DLE0114-27	GC, LH	HK	1988	6	27	M	03	163	173	126	128	130	134	203	207	208	210	+	+	+
	LD-28-88	DLE0115-28	GC, LH	HK	1988	6	27	F	06	177	163	128	124	134	134	205	203	216	206	+	+	+
	LD-29-88	DLE0116-29	GC, LH	HK	1988	6	27	M	06	173	177	128	128	134	134	205	209	206	214	+	+	+
	LD-30-88	AL88-18	GC, LH	HK	1988	6	27	F	06	163	163	128	124	136	134	203	201	210	210	+	+	+
	LD-19-88	AL88-20	GC, LH	HK	1988	6	27	M	06	163	163	128	124	136	134	203	203	218	210	+	+	+
	LD-21-88	AL88-22	GC, LH	HK	1988	6	27	M	09	173	159	124	124	134	134	199	203	218	208	+	+	+
	LD-23-88	AL88-24	GC, LH	HK	1988	6	27	M	08	179	179	124	124	136	134	205	203	216	216	+	+	+
	LD-27-88	AL88-30	GC, LH	HK	1988	6	27	M	06	173	171	128	124	134	134	211	203	208	208	+	+	+
	LDL-1-89	AL89-01	GC	HK	1989	7	2	F	11	171	163	128	124	134	134	213	207	214	208	+	+	+
	LDL-3-89	AL89-03	GC	HK	1989	7	2	F	02	171	163	126	124	134	134	211	203	210	206	+	+	+
	LDL-4-89	AL89-04	GC	HK	1989	7	2	F	03	163	163	124	124	136	134	205	205	216	214	+	+	+
	LDL-5-89	AL89-05	GC	HK	1989	7	2	F	06	173	173	128	126	134	130	205	203	210	210	+	+	+
	LDL-6-89	AL89-06	GC	HK	1989	7	2	F	06	171	159	128	124	134	134	203	201	216	208	+	+	+
	LDL-7-89	AL89-07	GC	HK	1989	7	2	M	06	171	163	124	124	134	134	203	203	218	214	-	-	-
	LDL-8-89	AL89-08	GC	HK	1989	7	2	F	03	173	163	128	124	134	134	211	211	216	210	+	+	+
	LDL-10-89	AL89-10	GC	HK	1989	7	2	M	09	177	163	128	128	136	134	203	201	208	206	-	-	-
	LDL-11-89	AL89-11	GC	HK	1989	7	2	F	03	163	163	126	124	136	134	205	205	208	208	+	+	+
	LDL-13-89	AL89-13	GC	HK	1989	7	2	F	01	173	163	128	126	134	134	205	203	210	208	+	+	+
	LDL-14-89	AL89-14	GC	HK	1989	7	2	F	-	181	173	128	128	134	132	203	201	210	210	-	-	-
	LDL-15-89	AL89-15	GC	HK	1989	7	2	F	03	171	163	128	124	134	132	205	201	218	214	-	-	-
	LDL-16-89	AL89-16	GC	HK	1989	7	2	F	06	173	159	128	124	134	134	203	201	210	208	+	+	+
	LDL-7-89	AL89-07	GC	HK	1989	7	2	M	06	171	163	124	124	134	134	203	203	218	214	-	-	-
	LDL-10-89	AL89-10	GC	HK	1989	7	2	M	09	177	163	128	128	136	134	203	201	208	206	-	-	-
	LDL-14-89	AL89-14	GC	HK	1989	7	2	F	-	181	173	128	128	134	132	203	201	210	210	-	-	-
	LDL-15-89	AL89-15	GC	HK	1989	7	2	F	03	171	163	128	124	134	132	205	201	218	214	-	-	-
	LDL-O1-90	LDL9-001	GC	HK	1992	7	11	F	03	173	159	128	124	136	134	205	205	210	208	+	+	+
	LDL-O2-90	LDL9-002	GC	HK	1992	7	11	M	03	173	163	124	124	134	134	207	203	214	210	+	+	+
	LDL-O3-90	LDL9-003	GC	HK	1992	7	11	M	02	171	163	126	124	134	134	203	203	216	214	+	+	+
	LDL-O5-90	LDL9-005	GC	HK	1992	7	11	M	03	163	159	128	124	134	134	207	201	218	208	+	+	+
	LDL-O6-90	LDL9-006	GC	HK	1992	7	11	M	09	173	163	128	124	136	134	207	203	218	208	+	+	+
	LDL-14-90	LDL9-014	GC	HK	1992	7	11	M	06	163	163	128	126	134	134	211	211	218	210	+	+	+
	LDL-16-90	LDL9-016	GC	HK	1992	7	11	M	09	171	163	128	124	134	134	203	201	216	210	+	+	+
	LDL-17-90	DLD9-017	GC	HK	1992	7	11	M	02	169	163	130	124	134	134	207	201	210	210	+	+	+
	LDL-18-90	DLD9-018	GC		1992	7	11	F	-	163	159	128	124	134	134	211	205	218	210	-	-	-
	LDL-130-90	LDL9-0130	GC	HK	1992	7	11	F	06	163	163	128	124	138	134	205	205	214	210	+	+	+
	LDL-20-90	LDL9-020	GC	HK	1992	7	11	M	09	181	173	128	124	134	134	203	203	210	210	+	+	+
	LDL-21-90	LDL9-021	GC	HK	1992	7	11	F	07	173	163	128	124	136	134	211	201	210	208	+	+	+
	LDL-23-90	LDL9-023	GC	HK	1992	7	11	M	07	163	159	128	128	136	134	205	205	214	214	+	+	+
	LDL-24-90	LDL9-024	GC	HK	1992	7	11	M	01	181	177	128	124	136	134	199	211	214	208	+	+	+

Table 1. Page 3 of 20 pages in Table.
Beluga samples examined for mtDNA and nDNA variation.

Location	Field ID	JGB ID	Contact	Source	Collection Date			Sex	Haplotype	Microsatellite Readings										JBG Publications		
					Year	Month	Day			DlrFCB4A	DlrFCB4B	DlrFCB5A	DlrFCB5B	Gme464/465A	Gme464/465B	EV37MnA	EV37MnB	EV94MnA	EV94MnB	1997	1998a	Thesis
	LDL-25-90	LDL9-025	GC	HK	1992	7	11	F	06	171 159		124 124		134 134		205 201		218 216		+	+	+
	LDL-26-90	LDL9-026	GC	HK	1992	7	11	F	06	173 163		128 126		134 134		213 205		214 210		+	+	+
	LDL-30-90	LDL9-030	GC	HK	1992	7	11	M	02	165 163		128 128		134 134		213 211		210 208		+	+	+
																				46	46	46
Point Hope, Alaska																						
	H424M	DLE0094	GC	HK	1988	5	24	M	06	- -		- -		134 134		- -		- -		-	-	-
MacKenzie Delta, Northwest Territories, Canada																						
Shingle Point, Mackenzie Delta (n=28)																						
	SP-9	SP 38-09	LH	HK	1988	7	19	F	04	163 171		124 126		130 134		203 205		210 210		+	+	+
	89-SP-01	SP89-01	LH	HK	1989	7	4	F	02	171 163		128 128		134 134		207 207		218 210		+	+	+
	89-SP-02	SP89-02	LH	HK	1989	7	9	M	06	171 163		124 124		134 130		205 203		218 214		+	+	+
	89-SP-03	SP89-03	LH	HK	1989	7	9	F	02	163 163		126 128		130 134		195 203		214 216		+	+	+
	89-SP-04	SP89-04	LH	HK	1989	7	9	M	06	173 163		124 124		136 134		213 207		210 210		+	+	+
	89-SP-05	SP89-05	LH	HK	1989	7	10	F	08	171 163		126 126		134 134		189 195		208 210		+	+	+
	89-SP-06	SP89-06	LH	HK	1989	7	12	M	07	177 181		124 128		134 134		211 213		214 214		+	+	+
	90-SP-06	SP90-06	LH	HK	1990	7	12	M	07	171 171		124 124		134 134		211 209		216 210		-	-	-
	90-SP-07	SP90-07	LH	HK	1990	7	12	M	07	173 171		124 124		138 134		211 209		214 210		+	+	+
	90-SP-08	SP90-08	LH	HK	1990	7	19	F	07	173 171		130 126		134 130		207 201		210 210		+	+	+
	90-SP-09	SP90-09	LH	HK	1990	7	19	M	07	183 171		130 126		136 134		211 207		216 210		+	+	+
	90-SP-10	SP90-10	LH	HK	1990	7	19	M	01	163 163		124 128		130 134		211 213		210 218		+	+	+
	SP-01	SP92-01	LH	HK	1992	7	6	M	07	163 163		124 126		134 134		207 209		210 214		+	+	+
	SP-02	SP92-02	LH	HK	1992	7	6	M	07	163 179		124 124		134 136		201 203		210 210		+	+	+
	SP-03	SP92-03	LH	HK	1992	7	9	M	07	163 177		124 124		134 136		201 211		216 216		+	+	+
	SP-04	SP92-04	LH	HK	1992	7	9	M	06	171 183		124 128		134 134		205 207		214 216		+	+	+
	SP-05	SP92-05	LH	HK	1992	7	9	M	07	163 173		108 128		130 134		211 215		216 216		+	+	+
	SP-06	SP92-06	LH	HK	1992	7	9	M	06	163 163		124 126		134 134		205 211		208 210		+	+	+
	SP-07	SP92-07	LH	HK	1992	7	15	F	07	159 159		126 128		134 134		205 211		208 216		+	+	+
	SP-08	SP92-08	LH	HK	1992	7	15	M	02	163 171		126 128		134 134		205 211		210 218		+	+	+
	SP-09	SP92-09	LH	HK	1992	7	15	F	07	163 171		124 126		132 134		205 211		210 214		+	+	+
	SP-10	SP92-10	LH	HK	1992	7	19	M	03	179 163		128 128		134 134		203 203		218 210		+	+	+
	SP93-05	SP93-05	LH	HK	1993	7	4	M	06	157 163		124 128		130 130		205 205		210 210		+	+	+
	SP93-06	SP93-06	LH	HK	1993	7	9	M	06	163 171		128 130		134 134		203 205		214 218		+	+	+
	SP93-07	SP93-07	LH	HK	1993	7	10	F	07	163 173		124 124		134 134		205 211		218 218		+	+	+
	SP93-08	SP93-08	LH	HK	1993	7	10	F	02	163 171		126 128		134 134		207 213		210 216		+	+	+
	SP93-09	SP93-09	LH	HK	1993	7	18	F	04	171 173		124 128		134 136		207 207		208 210		+	+	+
	SP93-10	SP93-10	LH	HK	1993	7	18	F	07	163 173		122 126		134 134		203 205		210 218		+	+	+
																				26	26	26
West Whitefish (n=26)																						
	89-WWF-01	WWF89-01	LH	HK	1989	7	8	M	02	163 181		124 128		134 136		203 213		208 210		+	+	+

Table 1. Page 4 of 20 pages in Table.
Beluga samples examined for mtDNA and nDNA variation.

Location	Field ID	JGB ID	Contact	Source	Collection Date: Year	Month	Day	Sex	Haplotype	Microsatellite Readings: DlrFCB4A	DlrFCB4B	DlrFCB5A	DlrFCB5B	Gme464/465A	Gme464/465B	EV37MnA	EV37MnB	EV94MnA	EV94MnB	JBG Publications: 1997	1999a	Thesis
	89-WWF-02	WWF89-02	LH	HK	1989	7	9	F	03	161	163	124	124	134	134	201	205	206	210	+	+	+
	89-WWF-03	WWF89-03	LH	HK	1989	7	9	F	02	171	179	128	128	132	134	201	213	206	216	+	+	+
	WWF-10	WWF88-10	LH	HK	1988	7	18	M	06	171	171	128	128	134	134	201	207	210	216	+	+	+
	90-WWF-01	WWF90-01	LH	HK	1990	7	-	M	07	163	163	130	124	134	130	199	205	214	214	+	+	+
	90-WWF-02	WWF90-02	LH	HK	1990	7	-	M	04	173	163	128	124	134	134	207	203	216	214	+	+	+
	90-WWF-03	WWF90-03	LH	HK	1990	7	-	M	04	163	163	126	124	134	134	209	207	218	218	+	+	+
	90-WWF-04	WWF90-04	LH	HK	1990	7	-	M	02	163	173	126	128	134	134	209	211	210	218	+	+	+
	90-WWF-05	WWF90-05	LH	HK	1990	7	-	M	07	163	137	128	124	134	134	207	205	214	208	-	+	+
	WWF-01	WWF92-01	LH	HK	1992	7	5	M	07	173	163	128	126	136	134	211	205	216	206	+	+	+
	WWF-02	WWF92-02	LH	HK	1992	7	5	M	07	163	159	128	108	134	134	211	205	210	206	+	+	+
	WWF-03	WWF92-03	LH	HK	1992	7	15	M	02	171	163	128	126	134	134	207	207	210	208	+	+	+
	WWF-04	WWF92-04	LH	HK	1992	7	19	F	07	173	163	128	126	134	134	205	205	216	208	+	+	+
	WWF-93-01	WWF93-01	LH	HK	1993	6	26	F	06	163	171	124	126	134	134	203	205	208	208	+	+	+
	WWF-93-02	WWF93-02	LH	HK	1993	6	26	M	02	163	171	124	128	130	134	211	213	210	214	+	+	+
	WWF-93-03	WWF93-03	LH	HK	1993	6	26	M	07	163	163	124	130	130	134	203	211	202	210	+	+	+
	WWF-93-04	WWF93-04	LH	HK	1993	6	29	M	04	159	163	124	128	134	134	205	213	208	214	+	+	+
	WWF-93-05	WWF93-05	LH	HK	1993	7	1	M	07	171	175	124	128	134	136	205	209	208	214	-	-	-
	WWF-93-06	WWF93-06	LH	HK	1993	7	3	M	-	163	171	126	128	134	134	205	211	206	216	-	-	-
	WWF-93-10	WWF93-10	LH	HK	1993	7	10	M	07	171	179	124	126	134	136	205	215	208	216	-	-	-
																				16	17	17
Kendall Island, MacKenzie Delta (n=23)																						
	K-11	KI87-11	LH	HK	1987	7	19	M	14	163	171	108	124	134	136	207	213	214	214	+	+	+
	K-15	KI88-15	LH	HK	1988	7	15	M	06	159	171	124	128	130	134	211	211	214	218	+	+	+
	K-19	KI88-19	LH	HK	1988	7	16	M	03	163	173	124	124	130	134	205	207	206	214	+	+	+
	K-21	KI88-21	LH	HK	1988	7	25	M	06	163	163	124	128	134	134	-	-	210	216	+	+	+
	K-01	KI89-01	LH	HK	1989	7	8	F	04	171	181	108	128	134	134	203	205	208	214	+	+	+
	K-02	KI89-02	LH	HK	1989	7	10	M	02	159	173	126	126	134	136	203	205	214	216	+	+	+
	K-03	KI89-03	LH	HK	1989	7	10	F	14	173	159	124	124	136	134	209	209	218	208	+	+	+
	K-04	KI89-04	LH	HK	1989	7	17	M	01	163	159	128	124	134	134	195	201	216	210	+	+	+
	K-05	KI89-05	LH	HK	1989	7	22	M	01	163	163	124	124	134	130	211	203	214	208	+	+	+
	90-K-05	KI90-05	LH	HK	1990	7	15	M	02	169	177	124	124	130	134	203	211	208	214	+	+	+
	90-K-06	KI90-06	LH	HK	1990	7	15	M	41	171	159	124	124	134	130	211	201	218	218	+	+	+
	90-K-07	KI90-07	LH	HK	1990	7	19	F	07	163	169	124	128	134	136	203	211	206	214	+	+	+
	92-K-01	KI92-01	LH	HK	1992	7	4	M	07	163	163	124	128	134	134	195	207	210	214	+	+	+
	92-K-02	KI92-02	LH	HK	1992	7	4	M	07	177	169	126	124	134	130	211	211	214	208	+	+	+
	92-K-03	KI92-03	LH	HK	1992	7	7	M	07	163	159	124	124	134	130	207	203	216	214	+	+	+
	92-K-04	KI92-04	LH	HK	1992	7	7	M	36	163	163	128	128	134	134	205	209	208	216	+	+	+
	92-K-05	KI92-05	LH	HK	1992	7	8	M	02	163	165	124	128	134	134	199	203	206	208	+	+	+
	92-K-06	KI92-06	LH	HK	1992	7	8	M	07	163	163	128	128	130	134	203	207	208	210	+	+	+
	92-K-07	KI92-07	LH	HK	1992	7	8	M	04	163	171	126	128	134	134	199	207	210	214	+	+	+

Table 1. Page 5 of 20 pages in Table.
Beluga samples examined for mtDNA and nDNA variation.

Location	Field ID	JGB ID	Contact	Source	Collection Date			Sex	Haplotype	Microsatellite Readings										JBG Publications		
					Year	Month	Day			DlrFCB4A	DlrFCB4B	DlrFCB5A	DlrFCB5B	Gme464/465A	Gme464/465B	EV37MnA	EV37MnB	EV94MnA	EV94MnB	1997	1999a	Thesis
	92-K-08	KI92-08	LH	HK	1992	7	8	M	04	163	173	124	126	134	134	211	211	210	214	+	+	+
	92-K-09	KI92-09	LH	HK	1992	7	8	F	01	163	163	124	128	134	134	199	205	214	218	+	+	+
	92-K-09	KI92-09	LH	HK	1992	7	8	M	01	175	163	128	124	136	134	211	209	214	210	+	-	-
	92-K-10	KI92-10	LH	HK	1992	7	8	M	10	171	173	124	128	134	134	207	213	208	210	+	+	+
																				23	22	22
Hendrickson Island, Mackenzie Delta (n=9)																						
	84-HIDL-05	HI84-05	LH	HK	1984	7	15	M	07	159	171	122	124	134	134	205	207	210	216	+	+	+
	84-HIDL-06	HI84-06	LH	HK	1984	7	15	F	07	163	179	108	128	134	136	203	205	208	214	+	+	+
	84-HIDL-09	HI84-09	LH	HK	1984	7	24	M	-	163	179	108	128	134	136	203	205	208	214	-	+	+
	89-HI-02	HI89-02	LH	HK	1989	7	3	F	02	163	163	126	124	136	134	211	207	214	210	+	+	+
	89-HI-01	HI89-01	LH	HK	1989	7	4	M	34	171	163	124	124	134	134	207	203	214	210	+	+	+
	89-HI-03	HI89-03	LH	HK	1989	7	4	M	02	163	159	124	124	134	130	199	207	216	202	+	+	+
	89-HI-10	HI89-10	LH	HK	1989	7	8	M	02	173	163	128	108	134	130	205	203	210	206	+	+	+
	89-HI-11	HI89-11	LH	HK	1989	7	11	M	04	179	163	124	124	134	134	213	205	210	206	+	+	+
	89-HI-13	HI89-13	LH	HK	1989	7	13	M	04	163	163	124	124	134	130	205	203	210	206	+	+	+
		Total																		8	9	9
East Whitefish, MacKenzie Delta (n=39)																						
	EWF84-09	EWF84-09	LH	HK	1984	7	9	M	04	159	161	128	128	134	134	205	209	206	206	+	+	+
	EWF-1	EWF88-01	LH	HK	1988	7	7	M	04	173	173	124	126	136	136	205	205	208	210	+	+	+
	EWF-5	EWF88-05	LH	HK	1988	7	10	M	01	163	169	126	128	134	134	203	207	210	214	+	+	+
	EWF-9	EWF88-09	LH	HK	1988	7	11	M	07	159	173	114	126	130	134	201	203	214	214	+	+	+
	EWF-10	EWF88-10	LH	HK	1988	7	11	M	07	163	165	124	124	134	134	201	205	202	216	+	+	+
	EWF-11	EWF88-11	LH	HK	1988	7	11	M	07	159	159	126	128	134	134	205	207	214	218	+	+	+
	EWF-12	EWF88-12	LH	HK	1988	7	11	M	07	163	163	124	128	134	134	201	203	218	218	+	+	+
	EWF-13	EWF88-13	LH	HK	1988	7	11	M	07	159	163	108	128	134	134	207	207	210	216	+	+	+
	EWF-16	EWF88-17	LH	HK	1988	7	25	F	07	163	171	126	128	130	134	201	207	208	214	+	+	+
	EWF-18	EWF88-19	LH	HK	1988	7	25	M	02	163	163	128	128	130	134	203	211	218	218	+	+	+
	EWF-20	EWF88-20	LH	HK	1988	7	25	M	07	163	163	124	130	134	134	199	213	216	216	+	+	+
	89-EWF-03	EWF89-03	LH	HK	1989	7	4	F	10	157	163	124	124	134	134	205	205	210	216	+	+	+
	89-EWF-02	EWF89-02	LH	HK	1989	7	5	F	04	163	173	124	128	134	136	203	213	210	216	+	+	+
	89-EWF-04	EWF89-04	LH	HK	1989	7	7	M	08	163	171	124	124	134	136	207	213	210	216	+	+	+
	89-EWF-05	EWF89-05	LH	HK	1989	7	10	M	07	159	171	124	128	134	136	205	211	208	214	+	+	+
	90-EWF-02	EWF90-02	LH	HK	1990	7	5	M	07	163	171	126	128	134	134	205	207	214	214	+	+	+
	90-EWF-03	EWF90-03	LH	HK	1990	7	5	M	04	159	171	124	128	134	134	205	211	218	218	+	+	+
	90-EWF-05	EWF90-05	LH	HK	1990	7	12	M	02	163	181	124	124	134	134	195	213	214	218	+	+	+
	90-EWF-06	EWF90-06	LH	HK	1990	7	12	M	04	159	179	124	124	134	138	205	211	214	216	+	+	+
	92-EWF-1	EWF92-01	LH	HK	1992	7	8	F	07	163	163	124	126	134	134	203	211	202	210	+	+	+
	EWF-02	EWF92-02	LH	HK	1992	7	8	M	06	171	157	128	126	134	134	205	203	218	214	+	+	+
	EWF-03	EWF92-03	LH	HK	1992	7	8	M	07	163	163	128	124	134	134	207	205	216	214	+	+	+

Table 1. Page 6 of 20 pages in Table.
Beluga samples examined for mtDNA and nDNA variation.

Location	Field ID	JGB ID	Contact	Source	Collection Date			Sex	Haplotype	Microsatellite Readings										JBG Publications		
					Year	Month	Day			DlrFCB4A	DlrFCB4B	DlrFCB5A	DlrFCB5B	Gme464/465A	Gme464/465B	EV37MnA	EV37MnB	EV94MnA	EV94MnB	1997	1998a	Thesis
	EWF-04	EWF92-04	LH	HK	1992	7	8	M	07	159	157	124	124	136	134	203	203	216	216	+	+	+
	EWF-05	EWF92-05	LH	HK	1992	7	9	M	04	171	171	124	124	134	134	205	203	214	210	+	+	+
	EWF-06	EWF92-06	LH	HK	1992	7	11	M	02	169	159	126	124	134	130	209	203	210	208	+	+	+
	EWF-07	EWF92-07	LH	HK	1992	7	11	M	07	171	163	130	124	134	134	211	205	210	210	+	+	+
	EWF-08	EWF92-08	LH	HK	1992	7	14	M	07	163	163	124	124	136	134	213	205	214	208	+	+	+
	EWF-09	EWF92-09	LH	HK	1992	7	14	M	07	163	159	128	124	136	134	207	201	218	210	+	+	+
	EWF-10	EWF92-10	LH	HK	1992	7	15	M	04	179	163	124	108	136	134	207	203	210	208	+	+	+
	EWF-93-01	EWF93-01	LH	HK	1993	7	2	M	07	163	163	128	130	134	134	205	205	206	218	+	+	+
	EWF-93-02	EWF93-02	LH	HK	1993	7	2	M	02	171	173	124	128	134	134	203	213	214	214	+	+	+
	EWF-93-03	EWF93-03	LH	HK	1993	7	4	M	07	159	159	124	124	134	134	205	209	208	214	+	+	+
	EWF-93-04	EWF93-04	LH	HK	1993	7	4	M	07	163	163	124	124	134	136	203	213	216	216	+	+	+
	EWF-93-04	EWF93-05	LH	HK	1993	7	8	M	02	163	171	124	128	130	134	203	205	208	216	+	+	+
	EWF-93-06	EWF93-06	LH	HK	1993	7	10	M	07	157	169	124	128	132	134	205	211	206	218	+	+	+
	EWF-93-07	EWF93-07	LH	HK	1993	7	10	M	07	159	171	128	130	134	134	211	211	208	214	+	+	+
	EWF-93-08	EWF93-08	LH	HK	1993	7	13	M	20	159	159	124	124	000	000	199	207	210	214	-	-	-
	EWF-93-09	EWF93-09	LH	HK	1993	7	13	M	14	163	171	124	124	134	138	199	201	202	214	-	-	-
	EWF-93-10	EWF93-10	LH	HK	1993	7	13	M	06	163	163	124	126	130	134	207	207	208	218	-	-	-
																				36	36	36
Tuktoyaktuk, MacKenzie Delta (n=28)																						
	89-TUK-03	TUK89-03	LH	HK	1989	-	-	F	07	173	173	124	124	134	134	203	203	216	214	+	+	+
	89-TUK-04	TUK89-04	LH	HK	1989	7	3	M	04	163	171	124	124	134	136	203	213	208	210	+	+	+
	89-TUK-05	TUK89-05	LH	HK	1989	7	4	M	07	159	171	124	124	130	134	205	211	210	216	+	+	+
	89-TUK-07	TUK89-07	LH	HK	1989	7	4	M	07	163	163	124	126	134	134	205	207	208	216	+	+	+
	89-TUK-08	TUK89-08	LH	HK	1989	-	-	M	02	159	161	124	128	134	134	207	211	210	214	+	+	+
	89-TUK-09	TUK89-09	LH	HK	1989	7	5	M	07	163	173	108	124	130	134	203	213	210	218	+	+	+
	90-TUK-02	TUK90-02	LH	HK	1990	7	1	-	07	163	163	122	122	130	134	203	205	-	-	+	+	+
	90-TUK-03	TUK90-03	LH	HK	1990	7	2	F	07	159	173	124	128	134	134	203	203	214	216	+	+	+
	90-TUK-04-A	TUK90-04	LH	HK	1990	7	1	F	02	161	171	128	128	134	136	203	211	208	208	+	+	+
	90-TUK-11	TUK90-11	LH	HK	1990	7	12	M	07	159	173	124	124	134	136	199	205	202	216	+	+	+
	TUK-01	TUK92-01	LH	HK	1992	7	8	M	07	179	163	128	128	134	130	199	205	210	210	+	+	+
	TUK-02	TUK92-02	LH	HK	1992	7	10	M	07	163	159	130	124	134	130	211	205	214	206	+	+	+
	TUK-04	TUK92-04	LH	HK	1992	7	19	M	07	163	163	128	128	136	134	213	205	214	210	+	+	+
	TUK-05	TUK92-05	LH	HK	1992	7	19	F	04	173	163	124	124	134	134	207	203	214	214	+	+	+
	TUK-06	TUK92-06	LH	HK	1992	-	-	M	42	163	163	124	126	134	134	199	199	210	214	-	-	-
	TUK-07	TUK92-07	LH	HK	1992	7	24	F	07	159	169	126	124	134	134	207	207	214	208	+	+	+
	TUK-08	TUK92-08	LH	HK	1992	-	-	M	06	163	163	130	124	134	130	211	201	214	208	+	+	+
	TUK-10	TUK92-10	LH	HK	1992	-	-	M	07	159	159	128	124	134	134	213	203	208	208	+	+	+
	TUK-11	TUK92-11	LH	HK	1992	7	25	F	07	163	163	124	124	134	134	207	203	214	210	+	+	+
	TUK-15	TUK92-15	LH	HK	1992	-	-	F	02	173	159	128	124	134	130	213	201	210	208	+	+	+
	TUK-16	TUK92-16	LH	HK	1992	-	-	F	07	163	171	124	124	130	134	203	203	216	216	+	+	+

Table 1. Page 7 of 20 pages in Table.
Beluga samples examined for mtDNA and nDNA variation.

Location	Field ID	JGB ID	Contact	Source	Collection Date: Year	Month	Day	Sex	Haplotype	Microsatellite Readings: DlrFCB4A	DlrFCB4B	DlrFCB5A	DlrFCB5B	Gme4644655A	Gme4644655B	EV37MnA	EV37MnB	EV94MnA	EV94MnB	JBG Publications: 1997	1999a	Thesis
	TUK-7	TUK92-107	LH	HK	1992	-	-	M	07	171	175	124	126	134	134	203	205	216	218	+	+	+
	TUK-93-01	TUK93-01	LH	HK	1993	7	2	M	-	161	183	124	128	130	134	203	205	206	214	-	-	-
	TUK-93-02	TUK93-02	LH	HK	1993	7	2	M	-	163	171	126	128	134	134	203	205	208	218	-	-	-
	TUK-93-03	TUK93-03	LH	HK	1993	7	2	F	07	163	171	126	128	134	134	203	205	208	218	+	+	+
	TUK-93-04	TUK93-04	LH	HK	1993	7	3	M	07	163	171	126	128	134	134	211	211	214	218	+	+	+
	TUK-93-06	TUK93-06	LH	HK	1993	7	10	M	07	163	163	126	128	130	134	205	207	214	216	+	+	+
	TUK-93-07	TUK93-07	LH	HK	1993	7	10	M	07	163	163	126	128	130	134	205	207	214	216	+	+	+
																				25	25	25
Husky Lakes, MacKenzie Delta (n=11)																						
	FS-MD-02	FSMD89-03	LH	ENT, HK	1989	11	9	M	07	163	171	126	128	130	136	207	211	208	210	+	+	+
	FS-MD-03	FSMD89-04	LH	ENT, HK	1989	11	9	M	02	163	173	108	126	134	134	203	211	216	218	+	+	+
	FS-MD-04	FSMD89-05	LH	ENT, HK	1989	11	9	M	04	163	163	124	128	134	134	195	195	208	216	+	+	+
	FS-MD-05	FSMD89-06	LH	ENT, HK	1989	11	9	F	07	163	179	124	126	134	134	195	211	208	214	+	+	+
	FS-MD-06	FSMD89-07	LH	ENT, HK	1989	11	9	M	07	163	175	124	126	134	134	203	211	208	210	+	+	+
	FS-MD-07	FSMD89-08	LH	ENT, HK	1989	11	9	F	07	161	163	124	124	134	134	203	207	210	214	+	+	+
	FS-MD-08	FSMD89-09	LH	ENT, HK	1989	11	9	M	07	159	163	108	128	134	136	203	209	210	210	+	+	+
	FS-MD-09	FSMD89-10	LH	ENT, HK	1989	11	9	F	07	163	163	122	128	134	134	203	207	218	218	+	+	+
	FS-MD-10	FSMD89-11	LH	ENT, HK	1989	11	9	M	01	171	181	128	128	134	134	205	207	210	210	+	+	+
	FS-MD-15	FSMD89-15	LH	ENT, HK	1989	11	17	M	06	163	163	124	124	134	136	201	203	214	214	+	+	+
	FS-MD-17	FSMD89-17	LH	ENT, HK	1989	11	17	F	06	163	171	124	128	130	134	203	205	216	216	+	+	+
																				11	11	11
Paulatuk, MacKenzie Delta (n=9)																						
	PAU-07	PK92-07	LH	HK	1992	7	24	M	07	163	163	128	128	134	138	201	203	210	216	+	+	+
	PAU-08	PK92-08	LH	HK	1992	7	24	F	07	159	163	124	124	134	134	209	211	206	210	+	+	+
	PAU-09	PK92-09	LH	HK	1992	7	24	F	07	163	171	126	130	134	134	207	211	214	214	+	+	+
	PAU-10	PK92-10	LH	HK	1992	7	24	F	07	163	171	108	124	134	134	195	203	206	218	+	+	+
	PAU-11	PK92-11	LH	HK	1992	7	24	M	07	173	177	128	128	134	134	203	205	214	216	+	+	+
	PAU-12	PK92-12	LH	HK	1992	7	24	M	04	163	171	126	128	134	134	205	205	210	214	+	+	+
	PK93-1	PK93-1	LH	HK	1993	7	19	M	08	163	163	126	130	134	138	201	203	208	214	-	+	+
	PK93-2	PK93-2	LH	HK	1993	7	19	M	07	163	183	124	128	130	134	205	215	208	210	-	+	+
	PK93-3	PK93-3	LH	HK	1993	7	19	M	08	159	159	124	130	134	138	201	205	206	206	-	+	+
																				6	9	9
Churchill, Manitoba (n=21)																						
	CH89-C1	CH89-C1	PH	HK	1989	7	15	M	02	159	163	124	124	134	138	199	199	210	210	+	+	+
	CH89-C2	CH89-C2	PH	HK	1989	7	15	F	02	163	163	124	128	130	134	203	211	202	214	+	+	+
	CHCL89-1	CHLC89-01	PH	LC	1989	7	28	F	02	161	163	124	124	130	130	203	209	210	210	+	+	+
	CHCL89-2	CHLC89-02	PH	LC	1989	7	29	F	02	159	159	124	128	130	130	207	209	208	214	+	+	+
	CRE89-01	CRE89-01	PH	TA	1989	8	12	F	05	159	163	122	122	130	134	201	211	210	216	+	+	+
	CRE89-02	CRE89-02	PH	TA	1989	8	12	M	02	159	163	124	124	-	-	203	211	-	-	+	+	+
	DLC90-1	CH9-001	PH	LC	1990	8	11	M	05	159	159	124	126	130	130	199	209	208	218	+	+	+

Beluga samples examined for mtDNA and nDNA variation.

Location	Field ID	JGB ID	Contact	Source	Collection Date: Year	Month	Day	Sex	Haplotype	Microsatellite Readings: DlrFCB4A	DlrFCB4B	DlrFCB5A	DlrFCB5B	Gme464/465A	Gme464/465B	EV37MnA	EV37MnB	EV94MnA	EV94MnB	JBG Publications: 1997	1998a	Thesis
	DLC90-2	CH9-002	PH	LC	1990	8	11	F	18	163	163	124	124	130	132	207	209	208	214	+	+	+
	DLC90-3	CH9-003	PH	LC	1990	8	11	M	02	163	171	124	128	130	130	209	211	208	208	+	+	+
	DLC90-4	CH9-004	PH	LC	1990	8	12	F	02	163	165	124	128	134	134	205	213	214	214	+	+	+
	DLC90-5	CH9-005	PH	LC	1990	8	12	M	02	159	163	124	126	134	134	205	209	208	214	+	+	+
	DLC90-6	CH9-006	PH	LC	1990	8	12	M	22	159	163	124	124	132	134	203	209	202	208	+	+	+
	DLC90-7	CH9-007	PH	LC	1990	8	12	M	02	163	173	124	128	132	134	207	213	202	208	+	+	+
	DLC90-8	CH9-008	PH	LC	1990	8	12	F	02	159	173	124	124	130	134	205	209	208	208	+	+	+
	DLC90-9	CH9-009	PH	LC	1990	8	11	M	02	159	163	124	128	134	134	209	211	208	216	+	+	+
	91C2	CH91C2-1	PH	HK	1991	8	3	F	02	159	173	122	122	130	134	207	207	206	214	+	+	+
	91C3	CH91C3	PH	HK	1991	8	3	F	05	159	173	126	126	130	134	199	209	208	214	+	+	+
	91-1	CH91-01	PH	TA	1991	7	6	M	02	159	163	124	124	130	134	203	207	208	214	+	+	+
	91-2	CH91-02	PH	TA	1991	7	8	F	02	159	159	124	128	130	130	205	207	208	218	+	+	+
	91-3	CH91-03	PH	TA	1991	7	8	M	02	161	169	124	124	130	134	203	205	208	210	+	+	+
	91-4	CH91-04	PH	TA	1991	7	8	M	20	159	161	124	126	130	132	207	209	208	214	+	+	+
		Total																		21	21	21
Arviat, Nunavut (West Hudson Bay) (n=22)																						
	AREP8701	EP87-01	RS	HK	1987	8	2	M	02	163	159	128	128	134	130	199	209	210	210	+	+	+
	AREP8702	EP87-02	RS	HK	1987	8	3	M	03	173	169	128	124	134	130	195	203	202	202	+	+	+
	AREP8703	EP87-03	RS	HK	1987	8	3	M	05	163	159	124	124	134	130	209	205	216	210	+	+	+
	AREP8705	EP87-05	RS	HK	1987	8	3	M	13	163	159	128	124	136	130	209	205	214	208	+	+	+
	AREP8706	EP87-06	RS	HK	1987	8	4	F	02	163	159	128	124	130	130	209	207	210	208	+	+	+
	AREP8707	EP87-07	RS	HK	1987	8	4	M	18	173	163	128	126	134	130	211	209	210	208	+	+	+
	AREP8708	EP87-08	RS	HK	1987	8	5	F	05	159	159	124	124	130	130	209	203	208	208	+	+	+
	AREP8709	EP87-09	RS	HK	1987	8	5	M	05	173	171	124	124	134	130	211	203	208	208	+	+	+
	AREP8710	EP87-10	RS	HK	1987	8	4	M	23	-	-	-	-	134	130	211	201	208	208	+	+	+
	AREP8712	EP87-12	RS	HK	1987	8	10	M	20	-	-	-	-	-	-	-	-	-	-	-	-	+
	AREP8713	EP87-13	RS	HK	1987	8	10	F	02	173	159	128	124	136	130	211	201	208	208	+	+	+
	AREP8714	EP87-14	RS	HK	1987	8	11	F	02	163	163	128	124	134	130	209	205	214	214	+	+	+
	AREP8715	EP87-15	RS	HK	1987	8	11	M	06	173	171	124	124	134	134	211	205	208	208	+	+	+
	AREP8717	EP87-17	RS	HK	1987	8	12	M	02	173	171	124	124	130	130	211	203	214	214	+	+	+
	AREP8719	EP87-19	RS	HK	1987	8	12	M	02	163	159	128	124	134	130	209	207	214	210	+	+	+
	AREP8720	EP87-20	RS	HK	1987	8	12	F	18	159	159	124	124	130	130	211	201	214	208	+	+	+
	AREP8721	EP87-21	RS	HK	1987	8	12	M	20	159	159	128	124	138	130	211	201	208	202	+	+	+
	AREP8722	EP87-22	RS	HK	1987	8	12	M	02	163	163	128	128	134	134	209	207	216	214	+	+	+
	AREP8723	EP87-23	RS	HK	1987	8	15	M	02	171	159	124	124	130	130	211	205	208	202	+	+	+
	AREP8724	EP87-24	RS	HK	1987	8	20	M	02	173	159	126	124	130	130	209	203	210	208	+	+	+
	AREP8725	EP87-25	RS	HK	1987	8	23	F	07	159	159	124	124	134	134	209	207	208	208	+	+	+
	AREP8726	EP87-26	RS	HK	1987	8	23	F	01	-	-	-	-	134	134	207	209	202	208	+	+	+
																				21	21	22

Table 1. Page 9 of 20 pages in Table.
Beluga samples examined for mtDNA and nDNA variation.

Location	Field ID	JGB ID	Contact	Source	Collection Date			Sex	Haplotype	Microsatellite Readings								JBG Publications		
					Year	Month	Day			DlrFCB4A	DlrFCB4B	DlrFCB5A	DlrFCB5B	Gme464/465A	Gme464/465B	EV37MnA	EV37MnB	EV94MnA	EV94MnB	1997	1998a	Thesis
Repulse Bay, Melville Peninsula, Nunavut (n=13)																				
	RB83-14	RE83-14	WSP	HK	1983	9	2	M	02	163	163	124	126	136	136	209	213	208	208	+	+	+
	RB83-15	RE83-15	WSP	HK	1983	9	2	F	02	159	163	124	128	130	136	199	205	202	210	+	+	+
	RB83-16	RE83-16	WSP	HK	1983	9	2	M	02	159	159	124	128	130	130	205	209	202	210	+	+	+
	RB83-17	RE83-17	WSP	HK	1983	9	13	F	02	163	163	124	124	130	134	207	211	202	208	+	+	+
	RB83-18	RE83-18	WSP	HK	1983	9	13	M	20	159	163	124	128	130	134	203	211	202	210	+	+	+
	RB83-19	RE83-19	WSP	HK	1983	9	13	M	02	163	163	124	128	130	134	205	209	202	210	+	+	+
	RB83-20	RE83-20	WSP	HK	1983	9	15	M	25	163	163	124	124	134	136	199	211	202	210	+	+	+
	RB83-21	RE83-21	WSP	HK	1983	9	17	M	02	159	159	124	124	130	132	209	213	208	208	+	+	+
	RB83-22	RE83-22	WSP	HK	1983	9	17	M	02	159	161	126	126	130	136	207	209	202	210	+	+	+
	RB83-23	RE83-23	WSP	HK	1983	9	19	M	06	171	171	126	126	130	136	203	207	202	208	+	+	+
	RB83-24	RE83-24	WSP	HK	1983	9	19	M	21	171	173	124	124	130	134	207	207	202	210	+	+	+
	RB83-25	RE83-25	WSP	HK	1983	9	21	M	02	173	173	124	126	134	136	199	205	208	208	+	+	+
	RB83-26	RE83-26	WSP	HK	1983	9	23	M	02	163	163	124	126	130	134	203	209	202	214		+	+
																				12	13	13
Coral Harbour, Southampton Island, Nunavut (n=9)																						
	IQ-216	CO94-216	WSP	HK	1994	8	1	F	02	159	159	124	124	136	130	209	205	208	208	+	+	+
	IQ-217	CO94-217	WSP	HK	1994	8	1	F	02	163	159	124	124	134	134	213	209	210	208	+	+	+
	IQ-218	CO94-218	WSP	HK	1994	8	26	M	02	173	159	124	124	134	134	211	199	208	208	+	+	+
	IQ-223	CO94-223	WSP	HK	1994	9	5	F	02	171	163	128	124	134	134	205	195	208	208	+	+	+
	IQ-229	CO94-229	WSP	HK	1994	-	-	F	02	163	159	126	124	134	130	211	205	214	210	+	+	+
	IQ-230	CO94-230	WSP	HK	1994	8	13	M	02	171	159	128	126	134	130	205	205	208	208	+	+	+
	IQ-231	CO94-231	WSP	HK	1994	-	-	F	02	171	163	128	124	136	130	211	205	214	214	+	+	+
	IQ-236	CO94-236	WSP	HK	1994	-	-	M	02	159	159	128	126	130	130	205	199	214	202	+	+	+
	IQ-232	CO94-232	WSP	HK	1994	-	-	M	02	171	163	128	124	134	130	207	201	218	214	-	+	+
																				8	9	9
Igloolik, Melville Peninsula, Nunavut (n=17)																						
	RA&HM-IQ-64	Ig94-64	WSP	HK	1994	9	16	-	-	163	163	124	128	134	134	199	207	210	216	-	-	-
	RA&HM-IQ-67	Ig94-67	WSP	HK	1994	8	18	M	20	159	159	124	124	134	134	205	209	202	210	+	-	+
	RA&HM-IQ-68	Ig94-68	WSP	HK	1994	9	16	M	20	159	173	124	128	130	130	205	209	214	216	+	-	+
	RA&HM-IQ-77	Ig94-77	WSP	HK	1994	10	6	F	02	159	173	124	128	130	130	207	209	210	210	+	-	+
	RA&HM-IQ-78	Ig94-78	WSP	HK	1994	10	6	M	16	159	159	128	128	130	130	207	211	210	214	+	-	+
	RA&HM-IQ-83	Ig94-83	WSP	HK	1994	9	16	M	02	159	163	124	124	134	134	207	209	208	214	+	-	+
	RA&HM-IQ-92	Ig94-92	WSP	HK	1994	9	14	M	02	159	173	124	128	130	134	209	209	208	214	+	-	+
	RA&HM-IQ-96	Ig94-96	WSP	HK	1994	9	22	M	02	159	161	124	124	130	132	209	211	202	206	+	-	+
	RA&HM-IQ-99	Ig94-99	WSP	HK	1994	9	16	M	02	161	173	124	124	130	130	203	205	208	210	+	-	+
	RA&HM-IQ-101	Ig94-101	WSP	HK	1994	8	18	M	40	161	163	124	124	134	136	205	209	210	216	+	-	+
	RA&HM-IQ-102	Ig94-102	WSP	HK	1994	8	25	M	16	161	163	124	124	130	130	207	213	208	210	+	-	+
	RA&HM-IQ-104	Ig94-104	WSP	HK	1994	8	25	M	02	163	173	124	124	130	134	207	209	210	216	+	-	+
	RA&HM-IQ-113	Ig94-113	WSP	HK	1994	8	25	M	02	163	163	124	124	136	130	213	205	214	210	+	-	+

Table 1. Page 10 of 20 pages in Table.
Beluga samples examined for mtDNA and nDNA variation.

Location	Field ID	JGB ID	Contact	Source	Collection Date			Sex	Haplotype	Microsatellite Readings										JBG Publications		
					Year	Month	Day			DlrFCB4A	DlrFCB4B	DlrFCB5A	DlrFCB5B	Gme464/465A	Gme464/465B	EV37MnA	EV37MnB	EV94MnA	EV94MnB	1997	1999a	Thesis
	RA&HM-IQ-114	Ig94-114	WSP	HK	1994	9	16	F	02	171	159	128	124	134	134	205	203	208	208	+	-	+
	RA&HM-IQ-116	Ig94-116	WSP	HK	1994	8	20	M	20	163	159	128	124	130	130	211	203	208	208	+	-	+
	RA&HM-IQ-118	Ig94-118	WSP	HK	1994	8	25	M	18	-	159	124	108	134	134	211	203	208	206	+	-	+
	RA&HM-IQ-120	Ig94-120	WSP	HK	1994	9	14	M	20	171	163	128	124	134	134	211	209	216	208	+	-	+
																				16	0	16
Hall Beach, Melville Peninsula, Nunavut (n=8)																						
	RA&HM-IQ-31	HaB94-31	WSP	HK	1994	9	9	M	-	163	159	126	124	134	132	209	207	210	208	-	-	+
	RA&HM-IQ-33	HaB94-33	WSP	HK	1994	9	19	M	20	171	159	124	124	132	130	207	207	214	210	-	-	+
	RA&HM-IQ-35	HaB94-35	WSP	HK	1994	9	19	M	02	173	173	128	124	136	130	211	209	208	202	-	-	+
	RA&HM-IQ-49	HaB94-49	WSP	HK	1994	9	9	M	20	163	163	128	124	134	130	211	209	214	210	-	-	+
	RA&HM-IQ-51	HaB94-51	WSP	HK	1994	9	5	M	20	163	163	128	124	138	134	211	203	214	206	-	-	+
	RA&HM-IQ-52	HaB94-52	WSP	HK	1994	9	5	M	18	161	159	124	124	134	130	213	209	-	-	-	-	+
	RA&HM-IQ-53	HaB94-53	WSP	HK	1994	9	5	M	-	163	159	128	124	136	134	205	195	216	214	-	-	+
	RA&HM-IQ-36-B	HaB94-36b	WSP	HK	1994	-	-	M	02	171	171	128	124	138	134	209	199	206	202	-	-	+
		Total																		0	0	8
Kimmirut, Nunavut (Southeast Baffin Island) (n=55)																						
	LH89-01	LH89-01	WSP	HK	1989	5	23	F	02	163	173	128	128	134	134	203	209	202	214	+	+	+
	LH89-02	LH89-02	WSP	HK	1989	7	27	M	02	161	173	124	128	130	132	203	209	208	210	+	+	+
	LH89-03	LH89-03	WSP	HK	1989	5	18	-	02	163	163	124	124	130	134	211	211	208	218	+	+	+
	LH89-04	LH89-04	WSP	HK	1989	7	27	M	02	159	169	126	126	134	136	199	209	210	218	+	+	+
	LH89-05	LH89-05	WSP	HK	1989	5	25	-	02	171	171	124	124	130	134	201	213	210	214	+	+	+
	LH89-07	LH89-07	WSP	HK	1989	6	24	F	02	159	163	124	124	134	134	205	207	214	216	+	+	+
	LH89-11	LH89-11	WSP	HK	1989	5	23	-	-	161	173	126	128	134	134	199	209	202	208	+	+	+
	LH89-14	LH89-14	WSP	HK	1989	6	24	M	02	159	161	124	124	130	134	195	207	208	210	+	+	+
	LH89-18	LH89-18	WSP	HK	1989	6	24	F	02	159	161	124	128	134	134	195	205	202	210	+	+	+
	X90-4	LH90-04	WSP	HK	1990	7	17	-	33	159	159	124	128	130	134	207	207	208	214	+	+	+
	X90-5	LH90-05	WSP	HK	1990	7	10	-	24	163	163	126	128	134	134	201	207	208	210	+	+	+
	P-8	LH90-08	WSP	HK	1990	6	9	-	02	163	171	124	124	130	134	201	203	214	218	+	+	+
	LH-26	LH90-26	WSP	HK	1990	7	10	-	02	163	163	124	128	134	134	211	211	216	216	+	+	+
	B91-1	LH91-01	WSP	HK	1991	10	17	-	05	159	163	124	124	130	134	205	207	202	214	+	+	+
	B91-3	LH91-03	WSP	HK	1991	10	17	-	02	159	163	126	126	134	136	207	211	206	216	+	+	+
	B91-5	LH91-05	WSP	HK	1991	11	19	-	02	159	181	124	124	130	134	205	207	208	210	+	+	+
	B91-6	LH91-06	WSP	HK	1991	11	7	-	02	159	159	128	128	134	138	205	207	208	214	+	+	+
	B91-24	LH92-24	WSP	HK	1992	5	23	F	02	159	163	124	124	134	134	205	209	202	208	+	+	+
	B91-29	LH92-29	WSP	HK	1992	-	5	F	02	163	171	126	126	130	134	203	207	208	208	+	+	+
	B91-30	LH92-30	WSP	HK	1992	4	20	-	02	159	159	124	124	134	138	203	205	208	208	+	+	+
	B91-54	LH92-54	WSP	HK	1992	6	13	F	23	159	171	124	126	130	130	205	211	208	214	+	+	+
	B91-64	LH92-64	WSP	HK	1992	4	25	F	02	163	163	124	130	134	134	209	211	208	218	+	+	+
	B91-91	LH92-91	WSP	HK	1992	5	19	F	05	159	163	124	126	134	134	201	211	208	208	+	+	+

Table 1. Page 11 of 20 pages in Table.
Beluga samples examined for mtDNA and nDNA variation.

Location	Field ID	JGB ID	Contact	Source	Collection Date			Sex	Haplotype	Microsatellite Readings								JBG Publications		
					Year	Month	Day			DlrFCB4A	DlrFCB4B	DlrFCB5A	DlrFCB5B	Gme464/465A	Gme464/465B	EV37MnA	EV37MnB	EV94MnA	EV94MnB	1997	1998a	Thesis
	B91-93	LH92-93	WSP	HK	1992	5	29	F	02	159	171	124	126	130	134	205	207	208	208	+	+	+
	B93-21	LH93-21	WSP	HK	1993	6	11	F	22	163	163	128	128	130	130	207	209	202	208	+	+	+
	B93-26	LH93-26	WSP	HK	1993	6	11	M	05	159	159	124	130	130	130	199	207	208	216	+	+	+
	B93-30	LH93-30	WSP	HK	1993	6	11	M	02	163	171	124	124	130	134	205	207	208	214	+	+	+
	B93-32	LH93-32	WSP	HK	1993	6	11	-	02	159	159	124	128	130	132	209	211	202	214	+	+	+
	B93-34	LH93-34	WSP	HK	1993	6	11	F	02	163	163	124	128	134	134	209	209	210	216	+	+	+
	B93-31	LH93-31	WSP	HK	1993	10	13	-	02	159	173	124	128	130	132	203	205	210	214	+	+	+
	B93-27	LH93-27	WSP	HK	1993	10	30	F	02	159	169	128	130	130	136	201	211	208	208	+	+	+
	B93-35	LH93-35	WSP	HK	1993	10	30	-	02	159	159	124	126	130	134	199	207	208	208	+	+	+
	B91-49	LH91-49	WSP	HK	1993	10	30	F	02	159	159	124	124	134	134	205	211	208	216	+	+	+
	B91-72	LH91-72	WSP	HK	1993	10	30	-	02	163	171	124	124	130	134	203	211	202	202	+	+	+
	B93-28	LH93-28	WSP	HK	1993	10	7	M	22	159	175	124	124	130	136	205	207	202	214	+	+	+
	B93-29	LH93-29	WSP	HK	1993	10	7	M	02	159	159	108	124	130	138	207	211	214	218	+	+	+
	B94-129	LH94-129	WSP	HK	1994	7	9	F	02	159	163	124	128	132	134	209	213	202	208	+	+	+
	LH-33	LH94-33	WSP	HK	1994	10	19	M	18	159	159	124	124	130	134	201	203	208	210	+	+	+
	B94-120	LH94-120	WSP	HK	1994	10	27	M	05	163	173	124	128	134	134	199	207	208	208	+	+	+
	B94-122	LH94-122	WSP	HK	1994	10	27	F	05	159	163	124	128	130	134	205	207	208	210	+	+	+
	B94-123	LH94-123	WSP	HK	1994	10	27	M	02	159	159	126	128	136	136	203	205	206	208	+	+	+
	B94-124	LH94-124	WSP	HK	1994	10	27	F	22	159	159	124	126	130	130	207	215	208	214	+	+	+
	B94-125	LH94-125	WSP	HK	1994	10	27	M	02	159	163	124	124	130	130	195	209	214	214	+	+	+
	B94-130	LH94-130	WSP	HK	1994	10	27	F	05	171	173	124	124	134	134	189	205	208	210	+	+	+
	B94-132	LH94-132	WSP	HK	1994	10	27	M	05	159	163	124	126	134	134	207	209	202	214	+	+	+
	B94-133	LH94-133	WSP	HK	1994	10	27	M	02	173	173	124	124	134	134	207	207	208	214	+	+	+
	B94-135	LH94-135	WSP	HK	1994	10	27	M	02	159	163	124	130	134	134	201	207	208	208	+	+	+
	B94-118	LH94-118	WSP	HK	1994	10	31	M	18	163	173	124	124	134	134	189	211	208	208	+	+	+
	B92-46	LH94-46	WSP	HK	1994	10	31	F	22	163	173	124	124	130	134	207	211	202	208	+	+	+
	B94-142	LH94-142	WSP	HK	1994	11	1	F	02	159	171	124	128	134	136	203	205	208	214	+	+	+
	B94-151	LH94-151	WSP	HK	1994	11	1	F	02	159	159	124	124	130	136	203	205	206	208	+	+	+
	B94-163	LH94-163	WSP	HK	1994	11	1	F	02	159	163	124	126	130	134	203	205	214	216	+	+	+
	B94-191	LH94-191	WSP	HK	1994	11	11	F	02	159	173	124	124	130	130	203	209	202	208	+	+	+
	B94-175	LH94-175	WSP	HK	1994	-	-	M	22	161	163	124	126	130	130	195	203	214	214	+	+	+
																				53	53	53
Iqaluit, Nunavut (Southeast Baffin Island) (n=47)																						
	B91-18	IQ91-18	WSP	HK	1991	7	15	F	02	159	173	124	124	134	136	205	211	206	210	+	+	+
	B91-17	IQ91-17	WSP	HK	1991	7	23	M	02	159	159	126	126	130	136	201	205	214	218	+	+	+
	B91-12	IQ91-12	WSP	HK	1991	7	25	M	02	161	163	124	124	130	130	205	211	208	214	+	+	+
	B91-14	IQ91-14	WSP	HK	1991	7	7	F	02	159	171	124	126	130	136	205	211	214	214	+	+	+
	B92-58	IQ92-58	WSP	HK	1992	6	5	M	02	163	173	124	124	130	134	207	207	214	214	+	+	+
	B92-66	IQ92-66	WSP	HK	1992	6	8	M	02	159	159	128	128	130	132	201	203	208	214	+	+	+

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Beluga samples examined for mtDNA and nDNA variation.

Location	Field ID	JGB ID	Contact	Source	Collection Date			Sex	Haplotype	Microsatellite Readings										JBG Publications		
					Year	Month	Day			DlrFCB4A	DlrFCB4B	DlrFCB5A	DlrFCB5B	Gme464/465A	Gme464/465B	EV37MnA	EV37MnB	EV94MnA	EV94MnB	1997	1999a	Thesis
	B92-88	IQ92-88	WSP	HK	1992	6	9	M	02	163	163	124	124	134	134	199	209	208	208	+	+	+
	B92-71	IQ92-71	WSP	HK	1992	6	19	M	02	159	159	124	128	130	134	207	207	208	214	+	+	+
	B92-90	IQ92-90	WSP	HK	1992	6	19	F	02	159	163	124	124	130	138	207	209	202	214	+	+	+
	B92-91	IQ92-91	WSP	HK	1992	6	19	-	05	159	159	124	126	134	130	209	189	214	214	+	+	+
	B92-63	IQ92-63	WSP	HK	1992	7	3	F	22	159	163	124	126	-	-	199	207	210	210	+	+	+
	B92-78	IQ92-78	WSP	HK	1992	7	3	F	05	159	159	124	128	138	134	201	203	208	218	+	+	+
	B92-81	IQ92-81	WSP	HK	1992	7	3	M	02	163	163	124	126	130	134	207	211	208	216	+	+	+
	B91-87	IQ91-87	WSP	HK	1993	7	23	M	22	159	173	126	128	130	134	207	211	208	216	+	+	+
	B93-67	IQ93-67	WSP	HK	1993	-	-	M	23	159	163	126	128	130	132	203	211	208	208	+	+	+
	B93-42	IQ93-42	WSP	HK	1993	7	16	M	05	159	173	126	128	130	134	203	211	208	216	+	+	+
	B93-43	IQ93-43	WSP	HK	1993	7	16	M	02	159	173	124	124	130	130	205	207	218	218	+	+	+
	B93-60	IQ93-60	WSP	HK	1993	7	17	F	02	163	173	126	126	130	134	205	207	208	216	+	+	+
	B93-52	IQ93-52	WSP	HK	1993	7	22	M	23	159	159	124	124	130	134	207	207	208	214	+	+	+
	B93-154	IQ93-154	WSP	HK	1993	7	22	M	02	161	163	124	128	134	138	205	211	210	218	+	+	+
	B93-61	IQ93-61	WSP	HK	1993	7	23	M	02	159	171	108	128	130	130	197	207	208	214	+	+	+
	B93-139	IQ93-139	WSP	HK	1993	7	23	M	22	161	163	124	124	134	134	207	211	214	214	+	+	+
	B93-147	IQ93-147	WSP	HK	1993	7	23	M	05	163	163	124	126	130	136	207	209	216	218	+	+	+
	B93-159	IQ93-159	WSP	HK	1993	7	23	M	22	159	171	126	126	130	136	209	211	208	210	+	+	+
	B93-38	IQ93-38	WSP	HK	1993	7	24	M	05	163	163	124	126	130	130	199	209	208	216	+	+	+
	B93-44	IQ93-44	WSP	HK	1993	7	24	M	02	163	179	124	128	130	136	207	209	202	208	+	+	+
	B93-58	IQ93-58	WSP	HK	1993	7	24	M	02	159	163	124	130	134	138	203	207	208	210	+	+	+
	B93-161	IQ93-161	WSP	HK	1993	7	25	M	02	159	159	124	128	134	134	195	199	208	208	+	+	+
	B93-48	IQ93-48	WSP	HK	1993	7	26	M	05	163	163	124	124	130	130	203	209	208	214	+	+	+
	B93-62	IQ93-62	WSP	HK	1993	7	26	M	22	159	163	124	124	134	134	189	205	208	214	+	+	+
	B93-133	IQ93-133	WSP	HK	1993	7	26	M	22	161	163	124	124	136	138	203	207	208	210	+	+	+
	B93-151	IQ93-151	WSP	HK	1993	7	26	M	22	159	159	124	126	134	134	205	205	210	218	+	+	+
	B93-134	IQ93-134	WSP	HK	1993	7	27	M	22	159	163	124	124	130	136	205	207	208	210	+	+	+
	B93-162	IQ93-162	WSP	HK	1993	7	29	F	02	159	159	124	124	134	134	207	209	214	214	+	+	+
	B93-143	IQ93-143	WSP	HK	1993	7	30	M	02	173	181	126	130	130	136	203	209	216	218	+	+	+
	B94-78	IQ94-78	WSP	HK	1994	7	9	F	02	159	163	124	126	130	134	199	203	214	-	+	+	+
	B93-150	IQ93-150	WSP	HK	1993	8	5	M	02	163	163	108	128	134	134	205	209	208	216	+	+	+
	B94-106	IQ94-106	WSP	HK	1994	7	10	F	22	163	163	124	124	130	134	209	211	202	214	+	+	+
	B94-154	IQ94-154	WSP	HK	1994	7	12	F	18	159	163	124	128	134	136	205	209	218	218	+	+	+
	B94-84	IQ94-84	WSP	HK	1994	7	21	M	02	159	163	124	126	132	134	205	211	208	208	+	+	+
	B94-174	IQ94-174	WSP	HK	1994	7	23	M	02	159	163	124	126	134	134	205	209	208	218	+	+	+
	B94-82	IQ94-82	WSP	HK	1994	7	27	F	02	159	163	124	128	134	138	199	211	208	210	+	+	+
	B94-79	IQ94-79	WSP	HK	1994	8	1	F	02	159	173	124	128	130	134	199	211	208	208	+	+	+
	B94-95	IQ94-95	WSP	HK	1994	8	17	M	02	159	171	124	124	130	134	209	211	208	208	+	+	+
																				44	44	44

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Beluga samples examined for mtDNA and nDNA variation.

Location	Field ID	JGB ID	Contact	Source	Collection Date			Sex	Haplotype	Microsatellite Readings										JBG Publications		
					Year	Month	Day			DlrFCB4A	DlrFCB4B	DlrFCB5A	DlrFCB5B	Gme4/4/4/5A	Gme4/4/4/5B	EV37MnA	EV37MnB	EV94MnA	EV94MnB	1997	1998a	Thesis
Unknown (Southeast Baffin Island) (n=9)																						
	IQ84-B1	IQ84-B1	FWI	HK	1984	-	-	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-
	IQ84-B1B	IQ84-B1B	FWI	HK	1984	-	-	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-
	IQ84-B2	IQ84-B2	FWI	HK	1984	-	-	-	16	-	-	-	-	-	-	-	-	-	-	-	-	-
	IQ84-B4	IQ84-B4	FWI	HK	1984	-	-	-	21	-	-	-	-	-	-	-	-	-	-	-	-	-
	IQ84-B5	IQ84-B5	FWI	HK	1984	-	-	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-
	IQ84-B6	IQ84-B6	FWI	HK	1984	-	-	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-
	IQ84-B7	IQ84-B7	FWI	HK	1984	-	-	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-
	IQ84-B8	IQ84-B8	FWI	HK	1984	-	-	-	02	-	-	-	-	-	-	-	-	-	-	-	-	-
	IQ84-B9	IQ84-B9	FWI	HK	1984	-	-	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-
Pangnirtung, Nunavut (Southeast Baffin Island) (n=109)																						
	P-DL-82-10	PG82-10	JO	HK	1982	-	-	M	02	171	159	126	128	134	134	203	209	208	208	+	+	+
	P-DL-82-11	PG82-11	JO	HK	1982	-	-	M	02	171	163	124	124	130	134	195	203	202	218	+	+	+
	P-DL-82-M1	PG82-M1	JO	HK	1982	-	-	M	02	171	159	124	124	130	134	199	203	206	214	+	+	+
	P-DL-82-M2	PG82-M2	JO	HK	1982	-	-	M	02	171	159	124	124	130	134	209	211	202	202	+	+	+
	P-DL-82-M3	PG82-M3	JO	HK	1982	-	-	M	06	159	159	124	126	130	130	195	205	202	208	+	+	+
	P-DL-82-M4	PG82-M4	JO	HK	1982	-	-	M	02	159	159	124	124	130	130	207	211	208	216	+	+	+
	P-DL-82-M5	PG82-M5	JO	HK	1982	-	-	M	03	159	159	108	128	130	134	203	211	208	214	+	+	+
	P-DL-82-M6	PG82-M6	JO	HK	1982	-	-	M	06	159	159	108	128	130	134	205	207	202	208	+	+	+
	P-DL-82-M9	PG82-M9	JO	HK	1982	-	-	M	02	159	159	124	126	130	130	199	205	208	216	+	+	+
	P-DL-82-F7	PG82-F7	JO	HK	1982	-	-	F	11	159	159	124	128	130	130	205	209	208	216	+	+	+
	PGDL-83-02	PG83-02	JO	HK	1983	8	15	F	06	159	163	124	128	134	134	205	211	206	214	+	+	+
	PGDL-83-03	PG83-03	JO	HK	1983	8	15	F	13	159	159	124	128	130	130	203	209	208	216	+	+	+
	PGDL-83-04	PG83-04	JO	HK	1983	8	15	F	05	159	171	122	126	130	130	203	205	202	206	+	+	+
	PGDL-83-05	PG83-05	JO	HK	1983	8	15	F	02	159	163	122	124	130	134	203	207	208	214	+	+	+
	PGDL-83-06	PG83-06	JO	HK	1983	8	15	F	11	159	163	124	124	130	130	205	207	208	214	+	+	+
	ARPG-84-16	PG84-16	RS	HK	1984	8	16	F	13	161	163	124	124	134	134	205	209	214	214	+	+	+
	ARPG-84-17	PG84-17	RS	HK	1984	8	16	M	13	159	163	124	128	134	134	201	205	202	216	+	+	+
	ARPG-84-19	PG84-19	RS	HK	1984	8	16	M	07	159	161	128	128	134	134	205	205	202	206	+	+	+
	ARPG-84-20	PG84-20	RS	HK	1984	8	16	M	02	171	171	108	126	130	134	195	203	208	208	+	+	+
	ARPG-84-21	PG84-21	RS	HK	1984	8	16	M	11	159	171	124	124	130	134	209	209	202	208	+	+	+
	ARPG-84-22	PG84-22	RS	HK	1984	8	18	F	02	159	163	124	124	134	134	203	203	208	210	+	+	+
	ARPG-84-27	PG84-27	RS	HK	1984	8	23	M	11	159	163	128	128	134	134	201	209	202	216	+	+	+
	ARPG-84-28	PG84-28	RS	HK	1984	8	24	F	22	159	163	124	128	134	134	207	209	208	214	+	+	+
	ARPG-84-29	PG84-29	RS	HK	1984	8	25	M	11	159	171	124	128	130	130	205	207	208	208	+	+	+
	ARPG-84-30	PG84-30	RS	HK	1984	8	25	F	02	-	-	-	-	-	-	-	-	-	-	+	+	+
	ARPG-85-04	PG85-04	RS	HK	1985	7	21	M	02	163	159	124	124	134	134	203	199	210	206	-	-	-
	ARPG-85-05	PG85-05	RS	HK	1985	7	21	M	02	163	159	128	124	130	130	201	195	210	208	-	-	-
	ARPG86-01	PG86-01	RS	HK	1986	7	26	M	07	163	171	124	128	134	134	203	205	202	208	+	+	+

Table 1. Page 14 of 20 pages in Table.
Beluga samples examined for mtDNA and nDNA variation.

Location	Field ID	JGB ID	Contact	Source	Collection Date			Sex	Haplotype	Microsatellite Readings										JBG Publications		
					Year	Month	Day			DlrFCB4A	DlrFCB4B	DlrFCB5A	DlrFCB5B	Gme464/465A	Gme464/465B	EV37MnA	EV37MnB	EV94MnA	EV94MnB	1997	1998a	Thesis
	ARPG86-02	PG86-02	RS	HK	1986	7	26	M	04	159	159	124	124	130	134	199	207	202	208	+	+	+
	ARPG86-03	PG86-03	RS	HK	1986	7	26	M	06	163	171	124	124	130	134	195	203	208	208	+	+	+
	ARPG86-04	PG86-04	RS	HK	1986	7	26	M	02	173	173	126	130	130	136	209	211	208	210	+	+	+
	ARPG86-05	PG86-05	RS	HK	1986	7	26	M	06	159	171	122	124	130	130	205	209	206	214	+	+	+
	ARPG86-06	PG86-06	RS	HK	1986	7	27	F	01	173	171	124	128	130	134	209	209	214	214	+	+	+
	ARPG86-07	PG86-07	RS	HK	1986	7	27	M	02	159	159	124	128	130	138	205	209	210	214	+	+	+
	ARPG86-08	PG86-08	RS	HK	1986	7	27	M	06	159	159	124	124	130	134	207	209	202	206	+	+	+
	ARPG86-09	PG86-09	RS	HK	1986	7	27	M	03	159	163	124	128	134	134	209	211	202	208	+	+	+
	ARPG86-10	PG86-10	RS	HK	1986	7	27	M	06	159	159	124	128	130	134	207	209	214	214	+	+	+
	ARPG86-11	PG86-11	RS	HK	1986	7	27	M	02	159	159	124	128	130	130	209	209	202	218	+	+	+
	ARPG86-12	PG86-12	RS	HK	1986	7	27	M	35	159	159	124	126	134	136	205	207	214	216	+	+	+
	ARPG86-13	PG86-13	RS	HK	1986	7	27	F	05	159	171	124	126	130	130	207	207	208	218	+	+	+
	ARPG86-14	PG86-14	RS	HK	1986	7	27	M	06	159	159	126	128	130	130	201	209	208	208	+	+	+
	ARPG86-15	PG86-15	RS	HK	1986	7	27	M	02	163	171	124	126	130	134	197	201	202	202	+	+	+
	ARPG86-16	PG86-16	RS	HK	1986	7	27	F	03	163	171	124	126	130	134	197	201	202	202	+	+	+
	ARPG86-17	PG86-17	RS	HK	1986	7	27	M	15	159	163	124	128	130	130	195	215	206	210	+	+	+
	ARPG86-18	PG86-18R	RS	HK	1986	7	27	M	13	159	159	124	124	134	134	203	203	202	216	+	-	+
	ARPG86-19	PG86-19	RS	HK	1986	7	27	M	11	159	163	124	124	130	134	203	209	208	214	+	+	+
	ARPG86-20	PG86-20	RS	HK	1986	7	27	M	03	163	179	126	128	130	134	203	209	208	216	+	+	+
	B89/1	PG89-01	WSP	HK	1989	1	6	M	02	159	159	108	124	130	134	195	207	208	210	-	-	-
	B89/2	PG89-02	WSP	HK	1989	1	6	F	02	163	171	108	128	134	134	203	209	202	214	-	-	-
	B89/3	PG89-03	WSP	HK	1988	12	24	F	02	159	159	126	128	130	134	205	207	208	210	-	-	-
	B91-33	PG91-33	WSP	HK	1991	7	10	F	06	171	159	128	124	134	134	211	205	208	208	+	+	+
	B91-45	PG91-45	WSP	HK	1991	7	10	F	06	179	159	124	122	134	130	203	201	216	208	+	+	+
	B91-58	PG91-58	WSP	HK	1991	7	12	M	02	171	159	128	126	130	130	209	201	208	208	+	+	+
	B91-67	PG91-67	WSP	HK	1991	7	12	F	02	159	159	128	128	134	134	199	211	208	208	+	+	+
	B91-22	PG91-22	WSP	HK	1991	7	13	M	02	159	159	124	108	134	134	195	205	208	208	+	+	+
	B91-41	PG91-41	WSP	HK	1991	7	13	F	02	173	159	124	124	134	130	205	203	210	202	+	+	+
	B91-46	PG91-46	WSP	HK	1991	7	13	M	07	171	159	128	124	130	130	201	201	210	208	+	+	+
	B91-48	PG91-48	WSP	HK	1991	7	15	M	05	171	159	128	124	130	130	207	205	214	208	+	+	+
	B91-62	PG91-62	WSP	HK	1991	7	15	M	02	163	159	126	124	130	130	207	207	214	210	+	+	+
	B91-69	PG91-69	WSP	HK	1991	7	15	M	22	163	159	128	124	130	130	205	203	214	210	+	+	+
	B92-30	PG92-30	WSP	HK	1992	-	-	M	02	163	159	124	124	134	130	195	205	208	208	+	+	+
	B92-6	PG92-06	WSP	HK	1992	5	7	M	22	159	163	124	126	130	134	195	199	202	214	+	+	+
	B92-4	PG92-04	WSP	HK	1992	5	12	F	22	159	163	124	128	-	-	195	199	202	208	+	+	+
	B92-9	PG92-09	WSP	HK	1992	5	23	F	06	163	163	-	-	-	-	203	205	210	210	+	+	+
	B92-5	PG92-05	WSP	HK	1992	6	9	M	22	173	159	124	122	134	130	207	207	214	208	+	+	+
	B92-13	PG92-13	WSP	HK	1992	7	8	M	02	173	171	128	124	134	130	209	209	208	208	+	+	+
	B92-34	PG92-34	WSP	HK	1992	7	13	F	22	163	159	124	124	134	130	209	209	216	214	+	+	+

Table 1. Page 15 of 20 pages in Table.
Beluga samples examined for mtDNA and nDNA variation.

Location	Field ID	JGB ID	Contact	Source	Collection Date			Sex	Haplotype	Microsatellite Readings										JBG Publications		
					Year	Month	Day			DlrFCB4A	DlrFCB4B	DlrFCB5A	DlrFCB5B	Gme4644/65A	Gme4644/65B	EV37MnA	EV37MnB	EV94MnA	EV94MnB	1997	1998a	Thesis
	B92-20	PG92-20	WSP	HK	1992	7	21	M	06	171	163	128	126	134	134	211	195	208	208	+	+	+
	B92-26	PG92-26	WSP	HK	1992	7	22	M	02	163	163	128	128	134	130	211	203	210	208	+	+	+
	B92-17	PG92-17	WSP	HK	1992	7	23	M	02	163	163	124	124	134	130	209	207	218	208	+	+	+
	B92-15	PG92-15	WSP	HK	1992	7	24	M	02	171	163	128	126	134	134	209	205	216	214	+	+	+
	B92-24	PG92-24	WSP	HK	1992	7	28	M	02	173	159	128	124	134	134	211	207	208	208	+	+	+
	B92-23	PG92-23	WSP	HK	1992	7	30	M	02	163	159	128	124	134	130	205	203	208	202	+	+	+
	B92-19	PG92-19	WSP	HK	1992	8	1	M	02	161	161	128	124	134	134	209	207	218	202	+	+	+
	B92-21	PG92-21	WSP	HK	1992	8	3	M	02	163	159	128	124	136	134	195	209	208	208	+	+	+
	B92-31	PG92-31	WSP	HK	1992	8	8	M	24	171	159	124	124	132	130	209	205	208	208	+	+	+
	B92-22	PG92-22	WSP	HK	1992	8	14	F	02	163	159	128	128	134	134	211	205	210	208	+	+	+
	B92-16	PG92-16	WSP	HK	1992	9	7	F	02	163	163	124	126	130	132	209	211	208	208	+	+	+
	B93-103	PG93-103	WSP	HK	1993	-	-	M	03	173	163	128	128	134	130	199	195	208	208	+	+	+
	B93-3	PG93-03	WSP	HK	1993	4	28	M	02	163	169	124	124	130	130	205	211	210	216	+	+	+
	B93-110	PG93-110	WSP	HK	1993	7	24	F	22	159	159	128	124	136	134	199	207	208	202	+	+	+
	B93-111	PG93-111	WSP	HK	1993	7	27	F	02	159	159	128	126	134	134	207	205	210	208	+	+	+
	B93-2	PG93-02	WSP	HK	1993	7	30	F	02	163	159	128	124	134	130	195	203	210	208	+	+	+
	B93-128	PG93-128	WSP	HK	1993	8	14	M	02	159	159	124	124	136	134	207	207	214	208	+	+	+
	B93-177	PG93-177	WSP	HK	1993	8	17	M	22	163	159	124	124	132	130	207	203	210	210	+	+	+
	B93-132	PG93-132	WSP	HK	1993	8	18	M	22	159	173	126	128	130	134	209	211	208	210	+	+	+
	B93-178	PG93-178	WSP	HK	1993	8	20	M	02	163	163	128	124	134	134	209	203	216	208	+	+	+
	B93-6	PG93-06	WSP	HK	1993	9	20	F	02	163	171	124	126	130	138	195	203	208	218	+	+	+
	B93-7	PG93-07	WSP	HK	1993	12	5	M	02	163	173	124	130	130	134	207	209	208	214	+	+	+
	B94-36	PG94-36	WSP	HK	1994	7	15	F	13	179	159	128	124	134	130	205	203	210	208	+	+	+
	B94-50	PG94-50	WSP	HK	1994	7	15	F	02	171	159	124	124	134	130	199	201	208	208	+	+	+
	B94-37	PG94-37	WSP	HK	1994	7	16	M	05	163	159	128	124	134	130	205	203	214	214	+	+	+
	B94-73	PG94-73	WSP	HK	1994	7	16	M	22	169	173	124	128	132	134	203	209	210	214	+	+	+
	B94-76	PG94-76	WSP	HK	1994	7	16	F	22	163	179	124	124	130	132	205	205	202	210	+	+	+
	B94-59	PG94-59	WSP	HK	1994	7	17	M	02	173	159	124	124	136	130	211	209	218	216	+	+	+
	B94-60	PG94-60	WSP	HK	1994	7	17	M	02	173	173	124	124	130	130	205	203	214	206	+	+	+
	B94-61	PG94-61	WSP	HK	1994	7	19	M	02	163	163	124	124	-	-	199	205	214	210	+	+	+
	B94-31	PG94-31	WSP	HK	1994	7	23	M	02	171	159	128	124	134	134	209	209	210	202	+	+	+
	B94-57	PG94-57	WSP	HK	1994	7	23	F	22	159	159	126	124	136	130	205	205	206	202	+	+	+
	B94-58	PG94-58	WSP	HK	1994	7	26	M	22	163	163	126	126	138	130	199	207	214	208	+	+	+
	B94-49	PG94-49	WSP	HK	1994	7	3	M	06	159	159	128	124	130	130	215	203	208	208	+	+	+
	B94-54	PG94-54	WSP	HK	1994	8	3	M	02	159	161	124	124	134	130	209	205	214	208	+	+	+
	B94-52	PG94-52	WSP	HK	1994	8	9	M	22	159	161	130	124	130	130	211	209	214	208	+	+	+
	B94-35	PG94-35	WSP	HK	1994	8	25	F	11	159	179	124	124	134	134	203	205	208	216	+	+	+
	B94-44	PG94-44	WSP	HK	1994	8	25	M	13	159	159	124	124	130	134	203	205	208	214	+	+	+
	B94-38	PG94-38	WSP	HK	1994	8	27	F	02	173	159	128	128	130	130	195	205	216	208	+	+	+

Table 1. Page 16 of 20 pages in Table.
Beluga samples examined for mtDNA and nDNA variation.

Location	Field ID	JGB ID	Contact	Source	Collection Date			Sex	Haplotype	Microsatellite Readings										JBG Publications		
					Year	Month	Day			DlrFCB4A	DlrFCB4B	DlrFCB5A	DlrFCB5B	Gme464/465A	Gme464/465B	EV37MnA	EV37MnB	EV94MnA	EV94MnB	1997	1999a	Thesis
	B94-67	PG94-67	WSP	HK	1994	8	27	F	13	163	159	128	124	130	130	211	205	210	202	+	+	+
																				102	101	102
Grise Fjord, Ellemere Island, Nunavut (n=26)																						
	ARGF8401	GF84-01	RS	HK	1984	9	13	F	07	159	159	124	108	134	130	209	205	218	216	+	+	+
	ARGF8402	GF84-02	RS	HK	1984	9	13	F	03	159	159	124	114	134	130	199	203	208	208	+	+	+
	ARGF8403	GF84-03	RS	HK	1984	9	13	F	05	171	163	128	128	134	130	207	207	214	208	+	+	+
	ARGF8404	GF84-04	RS	HK	1984	9	13	M	05	163	159	126	124	134	134	209	207	214	206	+	+	+
	ARGF8405	GF84-05	RS	HK	1984	9	13	F	05	163	159	124	124	134	134	195	207	206	202	+	+	+
	ARGF8406	GF84-06	RS	HK	1984	9	13	F	05	163	159	126	122	134	134	209	209	216	206	+	+	+
	ARGF8501	GF85-01	RS	HK	1985	9	10	M	02	171	159	126	124	134	130	209	201	214	206	+	+	+
	ARGF8502	GF85-02	RS	HK	1985	9	24	M	02	159	159	128	128	134	134	209	207	216	208	+	+	+
	ARGF8503	GF85-03	RS	HK	1985	9	24	M	31	159	159	124	124	132	130	207	207	208	208	+	+	+
	ARGF8504	GF85-04	RS	HK	1985	9	24	F	02	163	159	124	124	138	130	201	201	210	208	+	+	+
	ARGF8505	GF85-05	RS	HK	1985	9	24	M	02	173	159	126	126	134	134	203	203	216	210	+	+	+
	ARGF8703	GF87-03	RS	HK	1987	9	16	M	07	163	159	128	124	134	132	211	205	216	208	+	+	+
	ARGF8704	GF87-04	RS	HK	1987	9	16	F	07	173	163	126	124	134	130	211	205	208	208	+	+	+
	ARGF8705	GF87-05	RS	HK	1987	9	17	M	02	159	157	126	124	134	134	203	203	210	206	+	+	+
	ARGF8706	GF87-06	RS	HK	1987	9	17	M	02	163	159	128	128	-	-	209	203	216	208	+	+	+
	ARGF8707	GF87-07	RS	HK	1987	9	19	M	02	159	159	124	124	134	132	211	207	216	210	+	+	+
	ARGF8708	GF87-08	RS	HK	1987	9	23	M	02	159	159	128	126	136	134	199	203	218	218	+	+	+
	ARGF8709	GF87-09	RS	HK	1987	9	26	M	07	159	159	128	124	134	132	207	201	208	208	+	+	+
	ARGF8710	GF87-10	RS	HK	1987	9	26	M	07	171	159	108	108	134	134	199	209	216	216	+	+	+
	ARGF8711	GF87-11	RS	HK	1987	9	26	F	05	163	163	128	124	130	130	201	201	214	208	+	+	+
	ARGF93-507	GF93-507	WSP	HK	1993	-	-	F	07	159	159	124	124	134	130	205	205	216	216	+	+	+
	ARGF93-508	GF93-508	WSP	HK	1993	-	-	M	22	163	159	128	124	134	130	211	209	216	214	+	+	+
	ARGF93-509	GF93-509	WSP	HK	1993	-	-	F	07	171	163	124	124	138	130	211	201	218	210	+	+	+
	ARGF93-510	GF93-510	WSP	HK	1993	-	-	M	05	171	163	128	124	134	134	197	209	214	206	+	+	+
	ARGF93-517	GF93-517	WSP	HK	1993	-	-	M	38	169	159	124	124	134	132	209	207	208	208	+	+	+
	ARGF94-255	GF94-255	WSP	HK	1993	-	-	M	-	-	-	-	-	-	-	-	-	-	-	-	+	+
																				25	26	26
Creswell Bay, Somerset Island, Nunavut (n=5)																						
	GF39 CRES1	CR-93-01	JO	TA	1993	-	-	F	07	163	163	124	108	134	132	199	203	216	216	+	-	+
	GF40 CRES2	CR-93-02	JO	TA	1993	-	-	F	07	171	163	128	124	134	132	207	201	216	208	+	-	+
	GF41 CRES3	CR-93-03	JO	TA	1993	-	-	F	37	163	159	126	124	134	134	207	205	214	210	+	-	+
	GF42 CRES4	CR-93-04	JO	TA	1993	-	-	F	05	171	159	126	124	132	130	211	201	216	208	+	-	+
	GF43 CRES5	CR-93-05	JO	TA	1993	-	-	M	06	163	159	124	108	134	130	209	209	208	208	+	-	+
																				5	0	5
Arctic Bay, Nunavut (northern Baffin Island) (n=5)																						
	RA&HM-IQ-181	AB94-181	WSP	HK	1994	5	9	M	05	159	159	124	124	136	132	203	201	216	216	-	-	-
	RA&HM-IQ-182	AB94-182	WSP	HK	1994	5	8	F	-	163	159	128	126	136	136	209	207	210	210	-	-	-

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Beluga samples examined for mtDNA and nDNA variation.

Location	Field ID	JGB ID	Contact	Source	Collection Date			Sex	Haplotype	Microsatellite Readings										JBG Publications		
					Year	Month	Day			DlrFCB4A	DlrFCB4B	DlrFCB5A	DlrFCB5B	Gme464/465A	Gme464/465B	EV37MnA	EV37MnB	EV94MnA	EV94MnB	1997	1998a	Thesis
	RA&HM-IQ-187	AB94-187	WSP	HK	1994	6	1	F	-	163	163	124	108	136	132	207	201	208	206	-	-	-
	RA&HM-IQ-189	AB94-189	WSP	HK	1994	5	30	M	02	163	163	124	108	132	132	207	199	216	210	-	-	-
	RA&HM-IQ-190	AB94-190	WSP	HK	1994	5	28	F	02	159	159	124	124	136	136	207	205	210	206	-	-	-
Sanikiluaq (Belcher Islands), Nunavut (Eastern Hudson Bay) (n=40)																						
	B93-68	SK93-68	WSP	HK	1993	6	16	F	02	159	163	124	126	134	134	203	203	208	218	+	+	+
	B93-97	SK93-97	WSP	HK	1993	6	16	M	02	159	159	124	128	130	134	201	207	210	210	+	+	+
	B93-88	SK93-88	WSP	HK	1993	6	18	M	02	159	163	126	128	130	134	209	211	208	214	+	+	+
	B93-90	SK93-90	WSP	HK	1993	6	18	F	02	159	159	124	126	134	138	207	207	210	214	+	+	+
	B93-92	SK93-92	WSP	HK	1993	6	18	M	06	159	163	126	128	130	134	201	213	202	214	+	+	+
	B93-81	SK93-81	WSP	HK	1993	6	22	M	21	159	163	124	124	130	134	203	207	202	210	+	+	+
	B93-82	SK93-82	WSP	HK	1993	6	22	M	02	159	163	124	124	130	134	189	213	208	210	+	+	+
	B93-83	SK93-83	WSP	HK	1993	6	22	M	06	159	163	124	130	130	130	199	207	202	210	+	+	+
	B93-89	SK93-89	WSP	HK	1993	6	-	M	02	159	163	124	124	134	134	199	201	206	216	+	+	+
	B93-80	SK93-80	WSP	HK	1993	-	-	M	17	163	163	124	126	132	134	201	205	208	214	+	+	+
	B94-1	SK94-1	WSP	HK	1994	6	18	M	06	159	163	124	130	134	134	203	209	210	214	+	+	+
	B94-4	SK94-4	WSP	HK	1994	6	18	M	39	169	173	124	128	134	134	203	211	208	218	+	+	+
	B94-3	SK94-3	WSP	HK	1994	6	20	F	06	159	163	128	128	130	130	203	205	208	208	+	+	+
	B94-12	SK94-12	WSP	HK	1994	6	21	F	02	159	163	124	126	134	138	203	205	210	216	+	+	+
	B94-29	SK94-29	WSP	HK	1994	6	23	F	06	159	163	124	130	134	138	207	213	208	214	+	+	+
	B94-30	SK94-30	WSP	HK	1994	6	23	F	06	159	173	124	126	130	130	207	211	210	218	+	+	+
	B94-7	SK94-7	WSP	HK	1994	6	24	F	02	163	173	124	126	130	130	203	211	208	218	+	+	+
	B94-10	SK94-10	WSP	HK	1994	6	24	F	39	159	163	124	124	130	134	205	207	206	208	+	+	+
	B94-11	SK94-11	WSP	HK	1994	6	24	F	39	159	163	124	124	130	134	205	207	206	208	+	+	+
	B94-6	SK94-6	WSP	HK	1994	6	25	M	02	163	171	124	126	130	138	203	205	208	208	+	+	+
	B94-9	SK94-9	WSP	HK	1994	6	25	M	02	159	163	126	130	130	130	189	205	208	208	+	+	+
	B94-15	SK94-15	WSP	HK	1994	6	25	M	02	159	163	124	124	134	134	199	209	208	210	+	+	+
	B94-16	SK94-16	WSP	HK	1994	6	25	M	02	159	159	124	126	130	134	199	207	208	214	+	+	+
	B94-18	SK94-18	WSP	HK	1994	6	25	M	16	169	171	124	128	130	136	203	203	202	208	+	+	+
	B94-20	SK94-20	WSP	HK	1994	6	25	M	02	171	173	124	128	130	134	207	213	210	214	+	+	+
	B94-14	SK94-14	WSP	HK	1994	6	28	F	02	159	163	124	128	134	134	205	211	202	206	+	+	+
	B94-19	SK94-19	WSP	HK	1994	6	-	F	06	163	163	128	128	130	134	203	213	202	208	+	+	+
	B94-21	SK94-21	WSP	HK	1994	6	-	F	02	163	173	124	126	130	130	195	209	208	216	+	+	+
	B94-28	SK94-28	WSP	HK	1994	6	-	F	02	163	171	124	126	130	134	209	209	202	208	+	+	+
	B94-2	SK94-2	WSP	HK	1994	7	1	M	02	163	163	124	124	130	134	203	213	214	214	+	+	+
	B94-13	SK94-13	WSP	HK	1994	7	1	F	02	159	163	124	124	130	134	203	211	208	214	+	+	+
	B94-17	SK94-17	WSP	HK	1994	7	1	F	02	163	163	124	128	134	134	205	205	208	210	+	+	+
	B94-22	SK94-22	WSP	HK	1994	7	1	M	02	159	163	124	124	130	134	205	205	210	214	+	+	+
	B93-94	94-SK93-94	WSP	HK	1994	7	1	F	02	163	173	124	124	136	136	203	205	208	214	+	+	+

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Beluga samples examined for mtDNA and nDNA variation.

Location	Field ID	JGB ID	Contact	Source	Collection Date			Sex	Haplotype	Microsatellite Readings										JBG Publications		
					Year	Month	Day			DlrFCB4A	DlrFCB4B	DlrFCB5A	DlrFCB5B	Gme464/465A	Gme464/465B	EV37MnA	EV37MnB	EV94MnA	EV94MnB	1997	1999a	Thesis
	B93-95	94-SK93-95	WSP	HK	1994	7	1	F	02	159	163	124	124	130	130	203	205	208	208	+	+	+
	B94-87	SK94-87	WSP	HK	1994	7	7	M	17	159	163	124	124	130	134	207	209	208	214	+	+	+
	B94-5	SK94-5	WSP	HK	1994	7	14	M	17	163	173	124	126	130	132	207	209	208	214	+	+	+
	B94-24	SK94-24	WSP	HK	1994	7	14	M	17	159	159	124	124	130	130	201	211	210	214	+	+	+
	B94-27	SK94-27	WSP	HK	1994	7	14	M	02	163	163	124	124	134	134	199	201	208	216	+	+	+
	B94-23	SK94-23	WSP	HK	1994	9	13	M	02	159	173	124	126	130	134	205	209	202	208	+	+	+
																				40	40	40
Nastapoka River, Québec (Eastern Hudson Bay) (n=27)																						
	DLN84-1_N8401	N84-01	BD	HK	1984	6	23	-	07	171	169	128	124	136	134	205	205	208	208	+	+	+
	DLN84-2_N8402	N84-02	BD	HK	1984	7	9	-	18	161	159	128	124	130	130	211	209	208	208	+	+	+
	DLN84-4_N8404	N84-04	BD	HK	1984	7	12	M	18	173	163	124	124	134	130	209	205	208	202	+	+	+
	DLN84-5_N8405	N84-05	BD	HK	1984	7	12	F	18	173	159	124	124	134	134	209	205	208	202	+	+	+
	DLN84-13_N8413	N84-13	BD	HK	1984	7	29	F	32	175	159	128	124	134	130	211	201	216	208	+	+	+
	DLN84-14_N8414	N84-14	BD	HK	1984	8	7	M	18	161	159	128	128	134	134	209	209	214	208	+	+	+
	DLN84-16_N8416	N84-16	BD	HK	1984	8	8	M	18	163	159	128	124	130	130	211	211	214	208	+	+	+
	DLN84-27_N8427	N84-27	BD	HK	1984	9	4	F	18	163	159	126	126	134	134	209	209	214	210	-	+	+
	DLN85-2_N8502	N85-02	BD, TS	HK	1985	7	1	M	07	163	159	124	124	136	134	209	209	214	214	+	+	+
	DLN85-4_N8504	N85-04	BD, TS	HK	1985	7	6	M	17	163	159	128	124	134	130	211	209	216	208	+	+	+
	DLN85-5_N8505	N85-05	BD, TS	HK	1985	7	6	M	18	163	163	128	124	134	134	209	209	214	210	+	+	+
	DLN85-6_N8506	N85-06	BD, TS	HK	1985	7	6	M	18	163	163	128	124	134	132	207	203	218	214	+	+	+
	DLN85-8_N8508	N85-08	BD, TS	HK	1985	7	13	M	19	163	159	128	128	136	134	207	205	216	210	+	+	+
	DLN85-9_N8509	N85-09	BD, TS	HK	1985	7	16	F	19	171	171	128	124	130	130	199	211	210	202	+	+	+
	DLN85-10_N8510	N85-10	BD, TS	HK	1985	7	16	M	17	171	159	126	124	134	130	207	207	214	214	+	+	+
	DLN85-11_N8511	N85-11	BD, TS	HK	1985	7	26	M	07	163	163	124	124	130	130	211	209	208	208	+	+	+
	DLN85-13_N8513	N85-13	BD, TS	HK	1985	7	27	F	26	173	163	128	124	134	130	207	205	218	216	+	+	+
	DLN85-14_N8514	N85-14	BD, TS	HK	1985	7	28	F	26	163	159	124	124	134	134	199	209	208	206	+	+	+
	DLN85-15_N8515	N85-15	BD, TS	HK	1985	7	28	M	18	159	159	124	124	134	132	209	209	214	208	+	+	+
	DLN85-16_N8516	N85-16	BD, TS	HK	1985	7	28	M	18	163	159	122	122	134	130	209	205	214	210	+	+	+
	DLN85-21_N8521	N85-21	BD, TS	HK	1985	8	3	F	18	163	161	128	124	134	130	209	207	210	208	+	+	+
	DLN85-22_N8522	N85-22	BD, TS	HK	1985	8	3	M	18	163	163	126	124	136	130	209	207	218	210	+	+	+
	DLN85-23_N8523	N85-23	BD, TS	HK	1985	8	3	M	18	163	159	128	126	134	130	205	203	214	208	-	+	+
	DLN85-39_N8539	N85-32	BD, TS	HK	1985	8	14	F	18	173	163	128	124	136	134	205	203	208	208	-	+	+
	DLN85-40_N8540	N85-34	BD, TS	HK	1985	8	14	F	18	171	159	128	124	134	130	209	201	214	208	-	+	+
	DLN85-41_N8541	N85-38	BD, TS	HK	1985	8	15	F	18	163	159	124	124	134	130	207	203	216	208	-	+	+
	DLN85-42_N8542	N85-39	BD, TS	HK	1985	8	15	M	18	163	159	128	124	130	130	203	203	214	214	-	-	+
																				21	26	27
Kangiqsujuac, (Wakeham Bay), Québec (northern Québec) (n=6)																						
	DLW83-08	WB83-126	BD	HK	1983	10	21	M	17	163	173	124	126	130	136	209	211	202	210	+	-	+
	DLW83-07	WB83-127	BD	HK	1983	10	21	F	17	163	171	124	128	130	134	205	207	208	210	+	-	+

Table 1. Page 19 of 20 pages in Table.
Beluga samples examined for mtDNA and nDNA variation.

Location	Field ID	JGB ID	Contact	Source	Collection Date			Sex	Haplotype	Microsatellite Readings										JBG Publications		
					Year	Month	Day			DlrFCB4A	DlrFCB4B	DlrFCB5A	DlrFCB5B	Gme464/465A	Gme464/465B	EV37MnA	EV37MnB	EV94MnA	EV94MnB	1997	1999a	Thesis
	DLW83-12	WB83-122	BD	HK	1983	10	23	M	18	159	163	124	124	138	138	203	211	208	208	+	-	+
	DLW83-11	WB83-123	BD	HK	1983	10	23	M	17	159	159	128	128	134	134	207	207	202	208	+	-	+
	DLW83-10	WB83-124	BD	HK	1983	10	23	M	18	163	171	128	130	134	134	205	209	210	214	+	-	+
	DLW83-09	WB83-125	BD	HK	1983	10	23	F	20	163	171	126	128	132	134	203	205	208	214	+	-	+
																				6	0	6
St . Lawrence River, Québec, Canada (n=18)																						
	ST.L. 88 185	ST.L--88-185	PB, BW	BC	1988	-	-	F	29	163	163	124	124	130	130	209	207	214	206	+	+	+
	ST.L 88 188	ST.L--88-188	PB, BW	BC	1988	-	-	F	18	163	159	126	124	130	130	211	207	208	208	+	+	+
	ST. L. 2 88 188	ST.L--88-190	PB, BW	BC	1988	-	-	F	29	159	159	126	124	130	130	207	207	214	206	+	+	+
	ST. L. 4 88 192	ST.L--88-192	PB, BW	BC	1988	-	-	F	18	163	163	126	124	130	130	199	205	218	202	+	+	+
	ST. L. 5 89 334	ST.L-89-334	PB, BW	BC	1989	-	-	F	18	173	159	126	124	130	130	211	207	206	206	+	+	+
	ST. L. 6 89 335	ST.L--89-335	PB, BW	BC	1989	-	-	F	18	171	159	128	124	130	130	211	209	218	214	+	+	+
	ST. L. 7 89 336	ST.L--89-336	PB, BW	BC	1989	-	-	F	29	163	159	128	126	130	130	209	207	218	214	+	+	+
	ST. L. 8 89 338	ST.L--89-338	PB, BW	BC	1989	-	-	M	29	171	163	124	124	130	130	207	205	208	206	+	+	+
	ST. L. 9 89 339	ST.L--89-339	PB, BW	BC	1989	-	-	F	29	159	159	128	124	130	130	211	207	206	202	+	+	+
	ST. L. 10 89 340	ST.L--89-340	PB, BW	BC	1989	-	-	F	28	163	163	124	124	130	130	213	207	218	206	+	+	+
	ST. L. 11 89 341	ST.L--89-341	PB, BW	BC	1989	-	-	M	29	163	159	128	124	130	130	209	207	214	206	+	+	+
	ST. L. 12 88 342	ST.L--89-342	PB, BW	BC	1989	-	-	M	29	163	159	124	124	130	130	211	207	214	206	+	+	+
	ST. L. 13 91 368	ST.L-91-368	PB, BW	BC	1991	-	-	M	18	159	159	126	124	130	130	199	201	208	204	+	+	+
	ST. L. 14 91 369	ST.L.--91-369	PB, BW	BC	1991	-	-	F	29	173	159	128	124	130	130	199	199	210	206	+	+	+
	ST. L. 15 91 370	ST.L-91-370	PB, BW	BC	1991	-	-	F	18	173	159	124	124	134	130	213	207	210	206	+	+	+
	ST. L. 16 91 371	ST.L--91-371	PB, BW	BC	1991	-	-	M	29	173	159	126	124	130	130	209	207	214	206	+	+	+
	ST. L. 17 91 372	ST.L--91-372	PB, BW	BC	1991	-	-	M	29	163	159	128	124	130	130	211	207	218	214	+	+	+
	ST. L. 18 91 373	ST.L--91-373	PB, BW	BC	1991	-	-	M	29	171	159	126	124	130	130	199	211	218	208	+	+	+
																				18	18	18
Nova Scotia, Guysborough Harbour																						
	-	NS-94	PFB	BI	1994			F	29	159	173	124	124	130	134	209	209	206	218	-	-	-
West Greenland (n=21)																						
south of Saqqaq	62	WG9-0062	MPHJ	ENT, HK	1990	2	9	M	05	163	159	128	124	136	132	211	207	208	206	+	+	+
south of Saqqaq	64	WG9-0064	MPHJ	ENT, HK	1990	2	10	M	01	163	159	124	124	134	130	207	203	214	208	+	+	+
south of Saqqaq	66	WG9-0066	MPHJ	ENT, HK	1990	2	10	F	07	159	159	124	124	130	130	207	205	218	208	+	+	+
south of Saqqaq	67	WG9-0067	MPHJ	ENT, HK	1990	2	10	M	07	159	159	128	124	136	134	203	201	214	208	+	+	+
south of Saqqaq	68	WG9-0068	MPHJ	ENT, HK	1990	2	10	M	22	163	159	128	126	134	134	197	203	218	216	+	+	+
south of Saqqaq	70	WG9-0070	MPHJ	ENT, HK	1990	2	11	M	05	159	159	128	128	134	134	207	201	208	208	+	+	+
south of Saqqaq	61	WG9-0261	MPHJ	ENT, HK	1990	2	17	M	05	163	159	128	124	134	134	209	209	208	206	+	+	+
Saqqaq	169	WG9-0169	MPHJ	HK	1990	5	-	M	05	179	163	124	124	132	130	209	205	208	208	+	+	+
Saqqaq	170	WG9-0170	MPHJ	HK	1990	5	-	F	05	159	159	130	124	134	132	211	211	216	216	+	+	+
Saqqaq	173	WG9-0173	MPHJ	HK	1990	5	-	F	07	163	159	130	124	134	130	207	201	218	214	+	+	+
Nuussuaq	155	WG9-0155	MPHJ	HK	1990	10	17	M	02	179	159	128	126	134	130	203	201	208	206	+	+	+

Table 1. Page 20 of 20 pages in Table.
Beluga samples examined for mtDNA and nDNA variation.

					Collection Date					Microsatellite Readings										JBG Publications		
Location	Field ID	JGB ID	Contact	Source	Year	Month	Day	Sex	Haplotype	DlrFCB4A	DlrFCB4B	DlrFCB5A	DlrFCB5B	Gme464/465A	Gme464/465B	EV37MnA	EV37MnB	EV94MnA	EV94MnB	1997	1999a	Thesis
Nuussuaq	233	WG9-0233	MPHJ	HK	1990	10	17	F	05	163	159	126	124	134	130	197	205	218	216	+	+	+
Nuussuaq	234	WG9-0234	MPHJ	HK	1990	10	17	M	27	163	159	126	124	132	130	209	203	218	208	+	+	+
Nuussuaq	237	WG9-0237	MPHJ	HK	1990	10	17	F	07	163	163	128	124	132	130	209	203	214	208	+	+	+
Nuussuaq	238	WG9-0238	MPHJ	HK	1990	10	17	F	27	171	163	128	128	132	130	209	209	214	208	+	+	+
Nuussuaq	239	WG9-0239	MPHJ	HK	1990	10	17	M	02	159	159	128	128	134	130	205	201	208	206	+	+	+
Nuussuaq	240	WG9-0240	MPHJ	HK	1990	10	17	F	02	171	159	130	130	138	134	207	207	214	208	+	+	+
Nuussuaq	243	WG9-0243	MPHJ	HK	1990	10	17	M	07	159	159	128	126	134	134	211	211	216	208	+	+	+
Nuussuaq	245	WG9-0245	MPHJ	HK	1990	10	17	F	22	171	163	126	124	134	134	209	205	218	208	+	+	+
Nuussuaq	247	WG9-0247	MPHJ	HK	1990	10	17	F	07	163	173	126	124	134	134	207	205	210	208	+	+	+
Nuussuaq	257	WG9-0257	MPHJ	HK	1990	10	17	M	05	173	159	124	124	134	130	207	205	216	210	+	+	+
																				21	21	21
n=695 in total																			Totals	580	569	607